

<210> 817  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 817  
Leu Val Cys Phe Val Ile Phe Arg Leu Trp Tyr Met Cys Val Phe Thr  
1 5 10 15

Leu Trp Ala

<210> 818  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 818  
Phe Leu Ser Ser  
1

<210> 819  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 819  
Met Phe Ile Ser Leu Phe Ile Phe Gly Leu Val Arg Leu Trp Pro Cys  
1 5 10 15

Cys Val Val Ile Tyr Phe Val Tyr Ser Ile Cys Lys His Gln Cys Ser  
20 25 30

Gln Glu Ala His Ser Ser Ile Phe Asn Cys Lys Phe Val Ser Gln Ser  
35 40 45

Gln Phe Ser Ile Met  
50

<210> 820  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 820  
Met Phe Ile Ser Leu Phe Ile Phe Gly Leu Val Arg Leu Trp Pro Cys  
1 5 10 15

Cys Val Val Ile Tyr Phe Val Tyr Ser Ile Cys Lys His Gln Cys Ser  
20 25 30

Gln Glu Ala His Ser Ser Ile Phe Asn Cys Lys Phe Val Ser Gln Ser

441

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35

40

45

Gln Phe Ser Ile Met  
50

&lt;210&gt; 821

&lt;211&gt; 283

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 821

Met Ile Phe Leu Leu Leu Met Leu Ser Leu Glu Leu Gln Leu His Gln  
1 5 10 15

Ile Ala Ala Leu Phe Thr Val Thr Val Pro Lys Glu Leu Tyr Ile Ile  
20 25 30

Glu His Gly Ser Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser  
35 40 45

His Val Asn Leu Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn  
50 55 60

Asp Thr Ser Pro His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu  
65 70 75 80

Pro Leu Gly Lys Ala Ser Phe His Ile Pro Gln Val Gln Val Arg Asp  
85 90 95

Glu Gly Gln Tyr Gln Cys Ile Ile Ile Tyr Gly Val Ala Trp Asp Tyr  
100 105 110

Lys Tyr Leu Thr Leu Lys Val Lys Ala Ser Tyr Arg Lys Ile Asn Thr  
115 120 125

His Ile Leu Lys Val Pro Glu Thr Asp Glu Val Glu Leu Thr Cys Gln  
130 135 140

Ala Thr Gly Tyr Pro Leu Ala Glu Val Ser Trp Pro Asn Val Ser Val  
145 150 155 160

Pro Ala Asn Thr Ser His Ser Arg Thr Pro Glu Gly Leu Tyr Gln Val  
165 170 175

Thr Ser Val Leu Arg Leu Lys Pro Pro Pro Gly Arg Asn Phe Ser Cys  
180 185 190

Val Phe Trp Asn Thr His Val Arg Glu Leu Thr Leu Ala Ser Ile Asp  
195 200 205

Leu Gln Ser Gln Met Glu Pro Arg Thr His Pro Thr Trp Leu Leu His  
210 215 220

Ile Phe Ile Pro Ser Cys Ile Ile Ala Phe Ile Phe Ile Ala Thr Val  
225 230 235 240

Ile Ala Leu Arg Lys Gln Leu Cys Gln Lys Leu Tyr Ser Ser Lys Asp  
245 250 255

Thr Thr Lys Arg Pro Val Thr Thr Thr Lys Arg Glu Val Asn Ser Ala  
                   260                                  265                                  270

Val Asn Leu Asn Leu Trp Ser Trp Glu Pro Gly  
                   275                                  280

<210> 822

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 822

Met Ile Phe Leu Leu Met Leu Ser Leu Glu Leu Gln Leu His Gln  
       1                                  5                                  10                                  15

Ile Ala Ala Leu Phe Thr Val Thr Val Pro Lys Glu Leu Tyr Ile Ile  
                   20                                  25                                  30

Glu His Gly Ser Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser  
                   35                                  40                                  45

His Val Asn Leu Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn  
                   50                                  55                                  60

Asp Thr Ser Pro His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu  
                   65                                  70                                  75                                  80

Pro Leu Gly Lys Ala Ser Phe Pro Xaa Leu Lys Xaa Lys  
                                   85                                  90

<210> 823

<211> 23

<212> PRT

<213> Homo sapiens

<400> 823

Leu Phe Leu Leu Leu Glu Ile Ser Thr His Leu Cys Phe Trp Lys Ser  
       1                                  5                                  10                                  15

Leu Arg Lys Leu Glu Gly Lys  
                   20

<210> 824

<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 824  
Met Pro Trp Leu Lys Ser Leu Leu His Phe Ser Leu Phe Leu Val Val  
1 5 10 15  
Phe Ser Thr Leu Ala Val Lys Ser Leu Gly Val Pro Val Ala Ala Gly  
20 25 30  
Ser Pro Phe Cys Ile Val Asp Val Leu His Phe Ile Leu Leu  
35 40 45

<210> 825  
<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 825  
Met Pro Trp Leu Lys Ser Leu Leu His Phe Ser Leu Phe Leu Val Val  
1 5 10 15  
Phe Ser Thr Leu Ala Val Lys Ser Leu Gly Val Pro Val Ala Ala Gly  
20 25 30  
Ser Pro Phe Cys Ile Val Asp Val Leu His Phe Ile Leu Leu  
35 40 45

<210> 826  
<211> 67  
<212> PRT  
<213> Homo sapiens

<400> 826  
Met Asp Arg Gly Val Met Cys Leu Leu Ala Ser Trp Pro Gly Leu Gly  
1 5 10 15  
Ala Gln Phe Cys Gly Ala Gly Val Cys Pro Leu Arg Val Pro Ser Leu  
20 25 30  
Glu Pro Thr Leu Pro Asn Asp Gly Gly Leu Glu Ala Leu Thr Leu  
35 40 45  
Gly Gly Lys Glu Ala Lys Glu Arg Trp Arg Trp Lys Gly Arg Pro Gly  
50 55 60  
Gln Gly Gly  
65

<210> 827  
<211> 83  
<212> PRT  
<213> Homo sapiens



&lt;400&gt; 827

Gly His Val Leu Ala Tyr Ser Ser Trp Pro Ser Leu Ala Pro Gly Leu  
 1 5 10 15

Ser Val Gln Tyr Phe Val Ser Arg Val Glu Val Pro Asn Pro Gly Cys  
 20 25 30

Thr Leu Glu Ala Pro Gly Lys Leu Ser Glu Phe Leu Arg Pro Glu Pro  
 35 40 45

His Pro Lys Pro Ile Ser Ser Glu Ser Leu Gly Gly Thr Glu Pro Gly  
 50 55 60

Phe Cys Gln Leu Lys Pro Ala Met Val Thr Ser Val Ser Ser Tyr Thr  
 65 70 75 80

Glu Asn Ser

&lt;210&gt; 828

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 828

Met Asp Arg Gly Val Met Cys Leu Leu Ala Ser Trp Pro Gly Leu Gly  
 1 5 10 15

Ala Gln Phe Cys Gly Ala Gly Val Cys Pro Leu Arg Val Pro Ser Leu  
 20 25 30

Glu Pro Thr Leu Pro Asn Asp Gly Gly Gly Leu Glu Ala Leu Thr Leu  
 35 40 45

Gly Gly Lys Glu Ala Lys Glu Arg Trp Arg Trp Lys Gly Arg Pro Gly  
 50 55 60

Gln Gly Gly  
 65

&lt;210&gt; 829

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 829

Gly His Val Leu Ala Tyr Ser Ser Trp Pro Ser Leu Ala Pro Gly Leu  
 1 5 10 15

Ser Val Gln Tyr Phe Val Ser Arg Val Glu Val Pro Asn Pro Gly Cys  
 20 25 30

Thr Leu Glu Ala Pro Gly Lys Leu Ser Glu Phe Leu Arg Pro Glu Pro  
 35 40 45

His Pro Lys Pro Ile Ser Ser Glu Ser Leu Gly Gly Thr Glu Pro Gly  
 50 55 60

Phe Cys Gln Leu Lys Pro Ala Met Val Thr Ser Val Ser Ser Tyr Thr  
 65 70 75 80

Glu Asn Ser

<210> 830

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 830

Ser Trp Val Asp Phe Asp Cys Val Xaa Glu Val Ser Tyr Leu Asn Ser  
 1 5 10 15

Gly Ser Tyr Ser Leu Val Leu His Leu Glu Gly Leu His Pro Leu Glu  
 20 25 30

Leu Ser Gly Lys Leu Ala Ile Asp Phe Gly Lys Lys Arg Glu Phe Cys  
 35 40 45

Val Asp Gly Val Gly Gly Ala Thr Leu Val Ile Cys Pro Gly Phe Gln  
 50 55 60

Asp Phe  
 65

<210> 831

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 831

Met Trp Tyr Val Cys Ala Cys Val Cys Val Cys Val Xaa Val Cys Ser  
 1 5 10 15

Tyr Asn Arg Arg Thr Gly Lys Val Arg Thr Gln Asn Asn Glu Asp Leu  
 20 25 30

Leu Lys Cys Gly Gly Gly Val Cys Val Cys Val Phe Ile Glu Gln Glu  
 35 40 45

Asp Arg Lys Gly Asn Asp His Pro Trp Lys Met Lys Gly

50

55

60

<210> 832  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 832  
 Val Cys Cys Cys Leu His Leu Asn Ala Phe Val  
           1                  5                  10

<210> 833  
 <211> 716  
 <212> PRT  
 <213> Homo sapiens

<400> 833  
 Met Asn Asn Phe Arg Ala Thr Ile Leu Phe Trp Ala Ala Ala Ala Trp  
           1                  5                  10                  15

Ala Lys Ser Gly Lys Pro Ser Gly Glu Met Asp Glu Val Gly Val Gln  
                   20                  25                  30

Lys Cys Lys Asn Ala Leu Lys Leu Pro Val Leu Glu Val Leu Pro Gly  
                   35                  40                  45

Gly Gly Trp Asp Asn Leu Arg Asn Val Asp Met Gly Arg Val Met Glu  
           50                  55                  60

Leu Thr Tyr Ser Asn Cys Arg Thr Thr Glu Asp Gly Gln Tyr Ile Ile  
           65                  70                  75                  80

Pro Asp Glu Ile Phe Thr Ile Pro Gln Lys Gln Ser Asn Leu Glu Met  
                   85                  90                  95

Asn Ser Glu Ile Leu Glu Ser Trp Ala Asn Tyr Gln Ser Ser Thr Ser  
                   100                  105                  110

Tyr Ser Ile Asn Thr Glu Leu Ser Leu Phe Ser Lys Val Asn Gly Lys  
           115                  120                  125

Phe Ser Thr Glu Phe Gln Arg Met Lys Thr Leu Gln Val Lys Asp Gln  
           130                  135                  140

Ala Ile Thr Thr Arg Val Gln Val Arg Asn Leu Val Tyr Thr Val Lys  
           145                  150                  155                  160

Ile Asn Pro Thr Leu Glu Leu Ser Ser Gly Phe Arg Lys Glu Leu Leu  
                   165                  170                  175

Asp Ile Ser Asp Arg Leu Glu Asn Asn Gln Thr Arg Met Ala Thr Tyr  
                   180                  185                  190

Leu Ala Glu Leu Leu Val Leu Asn Tyr Gly Thr His Val Thr Thr Ser  
           195                  200                  205

Val Asp Ala Gly Ala Ala Leu Ile Gln Glu Asp His Leu Arg Ala Ser  
 210 215 220  
 Phe Leu Gln Asp Ser Gln Ser Ser Arg Ser Ala Val Thr Ala Ser Ala  
 225 230 235 240  
 Gly Leu Ala Phe Gln Asn Thr Val Asn Phe Lys Phe Glu Glu Asn Tyr  
 245 250 255  
 Thr Ser Gln Asn Val Leu Thr Lys Ser Tyr Leu Ser Asn Arg Thr Asn  
 260 265 270  
 Ser Arg Val Gln Ser Ile Gly Gly Val Pro Phe Tyr Pro Gly Ile Thr  
 275 280 285  
 Leu Gln Ala Trp Gln Gln Gly Ile Thr Asn His Leu Val Ala Ile Asp  
 290 295 300  
 Arg Ser Gly Leu Pro Leu His Phe Phe Ile Asn Pro Asn Met Leu Pro  
 305 310 315 320  
 Asp Leu Pro Gly Pro Leu Val Lys Lys Val Ser Lys Thr Val Glu Thr  
 325 330 335  
 Ala Val Lys Arg Tyr Tyr Thr Phe Asn Thr Tyr Pro Gly Cys Thr Asp  
 340 345 350  
 Leu Asn Ser Pro Asn Phe Asn Phe Gln Ala Asn Thr Asp Asp Gly Ser  
 355 360 365  
 Cys Glu Gly Lys Met Thr Asn Phe Ser Phe Gly Gly Val Tyr Gln Glu  
 370 375 380  
 Cys Thr Gln Leu Ser Gly Asn Arg Asp Val Leu Leu Cys Gln Lys Leu  
 385 390 395 400  
 Glu Gln Lys Asn Pro Leu Thr Gly Asp Phe Ser Cys Pro Ser Gly Tyr  
 405 410 415  
 Ser Pro Val His Leu Leu Ser Gln Ile His Glu Glu Gly Tyr Asn His  
 420 425 430  
 Leu Glu Cys His Arg Lys Cys Thr Leu Leu Val Phe Cys Lys Thr Val  
 435 440 445  
 Cys Glu Asp Val Phe Gln Val Ala Lys Ala Glu Phe Arg Ala Phe Trp  
 450 455 460  
 Cys Val Ala Ser Ser Gln Val Pro Glu Asn Ser Gly Leu Leu Phe Gly  
 465 470 475 480  
 Gly Leu Phe Ser Ser Lys Ser Ile Asn Pro Met Thr Asn Ala Gln Ser  
 485 490 495  
 Cys Pro Ala Gly Tyr Phe Pro Leu Arg Leu Phe Glu Asn Leu Lys Val  
 500 505 510  
 Cys Val Ser Gln Asp Tyr Glu Leu Gly Ser Arg Phe Ala Val Pro Phe  
 515 520 525

Gly Gly Phe Phe Ser Cys Thr Val Gly Asn Pro Leu Val Asp Pro Ala  
530 535 540

Ile Ser Arg Asp Leu Gly Ala Pro Ser Leu Lys Lys Cys Pro Gly Gly  
545 550 555 560

Phe Ser Gln His Pro Ala Leu Ile Ser Asp Gly Cys Gln Val Ser Tyr  
565 570 575

Cys Val Lys Ser Gly Leu Phe Thr Gly Gly Ser Leu Pro Pro Ala Arg  
580 585 590

Leu Pro Pro Phe Thr Arg Pro Pro Leu Met Ser Gln Ala Ala Thr Asn  
595 600 605

Thr Val Ile Val Thr Asn Ser Glu Asn Ala Arg Ser Trp Ile Lys Asp  
610 615 620

Ser Gln Thr His Gln Trp Arg Leu Gly Glu Pro Ile Glu Leu Arg Arg  
625 630 635 640

Ala Met Asn Val Ile His Gly Asp Gly Gly Gly Leu Ser Gly Gly Ala  
645 650 655

Ala Ala Gly Val Thr Val Gly Val Thr Thr Ile Leu Ala Val Val Ile  
660 665 670

Thr Leu Ala Ile Tyr Gly Thr Arg Lys Phe Lys Lys Lys Ala Tyr Gln  
675 680 685

Ala Ile Glu Glu Arg Gln Ser Leu Val Pro Gly Thr Ala Ala Thr Gly  
690 695 700

Asp Thr Thr Tyr Gln Glu Gln Gly Gln Ser Pro Ala  
705 710 715

<210> 834

<211> 94

<212> PRT

<213> Homo sapiens

<400> 834

Leu Ala Val Ile Met Ala Arg Pro Ala Ala Glu Pro Leu Cys Phe Leu  
1 5 10 15

Asn Pro Lys Leu Leu Ala Leu Ala Val Gly Val Leu Glu Leu Leu Gly  
20 25 30

Arg Gly Phe Leu Asp Ser Ser Pro Leu Leu Arg Pro Ala Ser Asp Gly  
35 40 45

Glu Arg Phe Thr Trp Glu Ala Leu Gly Glu Ser Leu Pro Phe Ser Asp  
50 55 60

Thr Phe Ala Ser Ser Val Phe Pro Val Pro Gly Val Phe Ser Ala Pro  
65 70 75 80

Ala Gly Ala Glu Ala Phe Val Leu Gly Met Val Met Pro Thr

85

90

<210> 835  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 835  
Met His Leu Leu Pro Trp Arg Ala Ala Ala Pro Pro Leu Leu Ile  
1 5 10 15  
Ala Val Pro Pro Arg Pro Ser Arg Ser Pro Val Gln Pro Pro Ser Leu  
20 25 30  
Gly Ala Ala Asn Pro Ser Ala  
35

<210> 836  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 836  
Pro Ser Ala Ala Ala Ser Ala Thr Pro  
1 5

<210> 837  
<211> 63  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 837

Met His Leu Leu Pro Trp Arg Ala Ala Ala Xaa Pro Leu Leu Xaa  
1 5 10 15

Ala Val Pro Xaa Arg Ala Xaa Arg Xaa Pro Val Gln Ala Pro Ser Leu  
20 25 30

Gly Ala Xaa Asn Pro Xaa Arg Gly Thr Gln Val Ala Thr Val Ser Xaa  
35 40 45

Xaa Ser Gly Lys Leu Leu Gly Leu Lys Ala Pro Arg Pro Lys Pro  
50 55 60

<210> 838

<211> 84

<212> PRT

<213> Homo sapiens

<400> 838

Thr Tyr Ser Phe Cys Val Cys Glu Arg Ala Phe Val Phe Gly Ser Val  
1 5 10 15

Pro Arg Ala Glu Val Glu Gln Gly Cys Thr Tyr His Gly Lys Gly Gly  
20 25 30

Arg Lys Glu Asn Trp Ile Ala Cys Asp Leu Trp Trp Asn Leu Phe Leu  
35 40 45

Leu Pro Arg Pro Phe Arg Pro Cys Leu Ile Ser Val Gly His Phe Arg  
50 55 60

Leu Trp Gln Gly Arg Ala Gly Leu Gln Ser Glu Val Pro Ala Ser Ser  
65 70 75 80

Leu Glu His Asn

<210> 839  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 839  
 Leu Gly Gly Tyr Ala Leu Ser Xaa Xaa Xaa Asn Arg Val Thr Asp Xaa  
   1                  5                  10                  15  
  
 Val Met Ile Tyr Phe Phe Ile Ile Ile Val Glu Tyr Phe Tyr Gly Lys  
           20                  25                  30  
  
 Ile Phe Val Val Leu Ile Ile Pro Ile Lys Ile Met Pro Asn Thr Lys  
       35                  40                  45  
  
 Tyr Glu Phe Tyr Asp Val His Phe Val Leu Gly Ile Lys Arg Lys Lys  
   50                  55                  60  
  
 His Thr Ser Trp Lys Ser Val Ser Cys Phe Leu Leu Leu  
   65                  70                  75

<210> 840  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens

<400> 840  
 Met Ser Arg Thr Ala Tyr Thr Val Gly Ala Leu Leu Leu Leu Leu Gly  
   1                  5                  10                  15  
  
 Thr Leu Leu Pro Ala Ala Glu Gly Lys Lys Gly Ser Gln Gly Ala  
           20                  25                  30  
  
 Ile Pro Pro Pro Asp Lys Ala Gln His Asn Asp Ser Glu Gln Thr Gln  
       35                  40                  45



Ser Pro Gln Gln Pro Gly Ser Arg Asn Arg Gly Arg Gly Gln Gly Arg  
 50 55 60  
 Gly Thr Ala Met Pro Gly Glu Glu Val Leu Glu Ser Ser Gln Glu Ala  
 65 70 75 80  
 Leu His Val Thr Glu Arg Lys Tyr Leu Lys Arg Asp Trp Cys Lys Thr  
 85 90 95  
 Gln Pro Leu Lys Gln Thr Ile His Glu Glu Gly Cys Asn Ser Arg Thr  
 100 105 110  
 Ile Ile Asn Arg Phe Cys Tyr Gly Gln Cys Asn Ser Phe Tyr Ile Pro  
 115 120 125  
 Arg His Ile Arg Lys Glu Glu Gly Ser Phe Gln Ser Cys Ser Phe Cys  
 130 135 140  
 Lys Pro Lys Lys Phe Thr Thr Met Met Val Thr Leu Asn Cys Pro Glu  
 145 150 155 160  
 Leu Gln Pro Pro Thr Lys Lys Lys Arg Val Thr Arg Val Lys Gln Cys  
 165 170 175  
 Arg Cys Ile Ser Ile Asp Leu Asp  
 180

&lt;210&gt; 841

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 841

Xaa His Ser His Trp Glu Gly Leu Lys Leu Cys Cys Leu Asn Pro Val  
 1 5 10 15

Leu Gly Pro Ala Arg Lys Arg Lys Arg Xaa Leu Arg Asn Arg Gly Ala  
 20 25 30

Arg Gly Gly Cys Arg Cys His Ser Arg Ala Ala Leu His Pro His Pro  
 35 40 45

His Ala Ser Cys Phe Thr Ala His Ser Val Thr Glu Leu Val Ala Leu  
 50 55 60

Gly Thr Gly Gly His Pro His Thr Leu Met Pro Thr Ala Glu Gly Arg  
 65 70 75 80

Ala Thr His Pro Ser Arg Asp  
85

<210> 842

<211> 77

<212> PRT

<213> Homo sapiens

<400> 842

Phe Val Leu Leu His Cys Leu Asn Ser His Leu His Leu Ala Leu Gln  
1 5 10 15

Phe Pro Leu Asn Thr Leu Ser Ser Pro Leu Val Cys Cys Gln Ser Ala  
20 25 30

Ala Leu Pro Ile Lys Ala Cys Ile Asn Tyr Ile Cys Pro Met Phe Thr  
35 40 45

Phe Ile Lys His Phe Pro Cys Thr Pro Val Pro Thr Ser Gln Gln Thr  
50 55 60

Arg Glu Arg Ala Val Gln Leu Met Ser Leu Pro Ser Phe  
65 70 75

<210> 843

<211> 41

<212> PRT

<213> Homo sapiens

<400> 843

Met Ala Phe Pro Arg Val Gly Ala Phe Leu Phe Leu Ala Ser Leu Ser  
1 5 10 15

Ser Leu Leu His Cys Arg Leu Leu Ala Glu Ala Val Ser Gly Arg Ser  
20 25 30

Val Ser Leu Ala Pro Ser Ile Ile Arg  
35 40

<210> 844

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 844

Arg Met Xaa Cys Ser Gln Pro Pro Arg Cys His Phe Gln Ser Asp Phe  
 1 5 10 15

Gln Lys Cys Ala Pro Cys Pro Arg Ala Gln Thr His Trp Leu Glu Pro  
 20 25 30

Pro Gly Arg Val Gln Thr Ile Ser Ser Met Arg Asn Ala Gln Lys Gly  
 35 40 45

Phe Ala Asp Ser Ile Arg Leu Trp Arg Leu Pro Ala Ser Gly Val Gly  
 50 55 60

Trp Val Val Ser Pro Pro Ile Gln Thr Gln Glu Val Ala Pro Glu Gly  
 65 70 75 80

Met Tyr Leu Val Gly Ser Ser Ser Gly Thr Leu Gly Gly Cys Xaa Ala  
 85 90 95

Leu Thr Gln Tyr Phe Ser Leu Ser Pro Leu Trp Gly Ala Cys Val Arg  
 100 105 110

Ala Arg Val Leu Ala Tyr Ala Phe Leu Cys Gly His Ile Arg Met Pro  
 115 120 125

Leu Gly Glu His Val His Val Ser Pro Pro Glu Arg Ala Cys Val Cys  
 130 135 140

Ala Pro Leu Arg Pro Arg Phe Gly Arg Leu Gly Phe Gly Val Pro Val  
 145 150 155 160

Phe Cys Pro Pro

&lt;210&gt; 845

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 845

Met Gly Thr Ser Thr Ala Trp Arg Val Pro Trp Arg Arg Trp Ala Arg  
 1 5 10 15

Val Arg Cys Trp Trp Leu Trp Pro Xaa Thr Gly Thr Ala Glu Pro Pro  
 20 25 30

Gly Thr Ala Gly Trp Gln Gly Leu Ala Gly Gly Arg Cys Arg Glu Ala  
 35 40 45

Trp Gly Ser Leu Leu Met Gly Met Phe Gly Leu Cys Phe Leu Pro Val  
 50 55 60

His Ser Gln Ser Cys Leu Ser Ser Ser Ser Pro Thr Pro Arg Pro  
 65 70 75 80

<210> 846.

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 846

Ile Gly Pro Xaa Gly Pro Arg Asn Ser Xaa Thr Gly Gly Ala Phe Leu  
 1 5 10 15

Asp Phe Ser Ala Gln Ala Lys Lys Lys Lys Xaa Gln Phe Leu Lys Ile  
 20 25 30

Phe Phe Pro Gly Leu Cys Lys Ser Leu Ile Tyr Gly Ile Phe Val Met  
 35 40 45

Gln Arg Asn Thr Leu  
 50

<210> 847

<211> 50

<212> PRT

<213> Homo sapiens

<400> 847

Met Glu Glu Val Ala Phe Met Val Leu Lys Tyr Val Leu Pro Phe Leu  
 1 5 10 15

Lys Ser Leu Trp Leu His Val Tyr Leu Leu Ala Val Leu Trp Pro Arg  
 20 25 30

Leu Ala Ser Met Ile Ser Phe Gly Ser Arg Leu Phe Gln Ile Val Asp  
 35 40 45

Gly Ala  
 50

<210> 848  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 848  
 Lys Lys Xaa Pro Xaa Xaa Leu Ser Gly Ser Lys Ala Ile Ala Ser Lys  
     1                    5                    10                    15  
 Thr Lys Glu Ile Glu Gln Val Tyr Arg Gln Asp Cys Glu Thr Phe Gly  
                     20                    25                    30  
 Met Val Val Lys Met Leu Ile Glu Lys Asp Pro Ser Leu Glu Lys Ser  
             35                    40                    45  
 Ile Gln Phe Ala Leu Arg Gln Asn Leu His Glu Ile Gly Glu Arg Cys  
             50                    55                    60  
 Val Glu Glu Leu Lys His Phe Ile Ala Glu Tyr Asp Thr Ser Thr Gln  
     65                    70                    75                    80  
 Asp Phe Gly Glu Pro Phe  
                     85

<210> 849  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 849  
 Arg Lys Val Glu Gly Gly Ala Ser Gly Leu Asn Gly Phe Pro Asn His  
     1                    5                    10                    15  
 Pro Ser Ser Leu Gly Pro Ala Trp Phe Pro Pro Leu Pro Leu Pro Ser  
             20                    25                    30  
 Thr Leu Ser Arg Thr Gly Leu Met Lys Ala Leu Pro Lys Ile Ser Pro  
             35                    40                    45  
 Thr Pro Asn Phe Pro Leu Pro Pro Thr Phe Pro Thr Ser Ser Thr Thr

50                      55                      60  
 Leu Phe Gly Ala Thr Ala Gly Pro Glu Ala Gln Ser Ala Val Ser Gln  
 65                      70                      75                      80  
 Ala Phe Val His Leu Ser Pro Gln Ser Ile Ser Val Leu Gly Glu Ser  
 85                      90                      95  
 His Thr Glu Thr Gln Glu His Pro Leu Pro Glu Leu Arg Glu Val Leu  
 100                      105                      110  
 Ser Leu Arg Gly Gly Leu Ser Ala Val Cys Asn Asn Val Val Leu Phe  
 115                      120                      125

Ile

<210> 850  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 850  
 Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala  
 1                      5                      10                      15  
 Gln Leu Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu  
 20                      25                      30  
 Ala Ala Gly Phe Thr Tyr Val Pro Leu Cys Cys Gly Xaa Xaa Val Xaa  
 35                      40                      45

<210> 851  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 851

Ile Leu Gln Arg Arg Lys Gln Arg Leu Leu Arg Gly  
 1 5 10

<210> 852

<211> 371

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 852

Met Leu Phe Pro Ser Phe Ser Arg Ser Leu Val Pro Leu Pro His Ala  
 1 5 10 15

Leu Tyr Leu Xaa Gln Pro Leu Thr His Thr Thr Ser Leu Leu Ala Gly  
 20 25 30

Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala  
 35 40 45

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp  
 50 55 60

Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala  
 65 70 75 80

Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu  
 85 90 95

Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val  
 100 105 110

Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro  
 115 120 125

Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu  
 130 135 140

Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser  
 145 150 155 160

Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu  
 165 170 175

Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala  
 180 185 190

Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala  
 195 200 205

Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe  
 210 215 220

Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg  
 225 230 235 240

Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp  
                           245                          250                          255

Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu  
                           260                          265                          270

Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg  
                           275                          280                          285

Arg His Tyr Asp Glu Gly Lys Ala Leu Ala Ala Ser Arg Gly Trp Cys  
                           290                          295                          300

Gly Ser Arg Pro Pro Glu Thr Thr Leu Gly Ala Val Ser Gly Leu Val  
                           305                          310                          315                          320

Pro Leu His Pro Gly Pro Asp Phe Ser Val Arg Lys Val Gly Met Asp  
                           325                          330                          335

Pro Ile Cys Ile His Gly Phe Ser Trp Val Trp Asn Ile Ser Ala Cys  
                           340                          345                          350

Gly Phe Arg Lys Ala Ser Gly Cys Ser Arg Ser Leu Ile Arg Val Val  
                           355                          360                          365

Ala Pro Val  
                           370

<210> 853  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 853  
 Met Gly Pro Leu Trp Gly Ala Pro Leu Arg Ala Trp Ala Ala Gly Ser  
   1                          5                          10                          15

Val Gly Cys Pro Cys Cys Leu Ser Cys Ala Ser Pro Ser Ser Ile Ser  
                           20                          25                          30

Ser Ala Gly Asp Pro Leu Ala Ser Cys Ser Thr Cys Gly Ser Thr Trp  
                           35                          40                          45

Glu Ile Pro Leu Thr Trp Met Thr Met Asp His Leu Leu Val Arg Tyr  
                           50                          55                          60

Tyr Leu Ser Gln Ala Arg Trp Cys Thr Thr Gly  
                           65                          70                          75

<210> 854  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 854  
 Ile Ser Tyr His His Val Lys Ala Ser His Leu Lys Ile Lys Ile Gln



461

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 858  
 Met Ala Gly Glu Glu Met Ala Trp Gly Ala Arg Leu Trp Ile Met Cys  
           1                  5                  10                  15  
 Xaa Leu Leu Phe Leu Ala Ala Ser Glu Gly Ile Met Pro Arg Leu Arg  
                   20                  25                  30  
 Ala Ser Ala Trp  
                   35

<210> 859  
 <211> 352  
 <212> PRT  
 <213> Homo sapiens

<400> 859  
 Val Ser Leu Leu Leu Trp Gly Ile Ser Ile Arg Gly Ala Asp Ala Cys  
           1                  5                  10                  15  
 Ala Asp Ala His Leu Phe Cys Lys Glu Cys Leu Ile Arg Tyr Ala Gln  
                   20                  25                  30  
 Glu Ala Val Phe Gly Ser Gly Lys Leu Glu Leu Ser Cys Met Glu Gly  
                   35                  40                  45  
 Ser Cys Thr Cys Ser Phe Pro Thr Ser Glu Leu Glu Lys Val Leu Pro  
           50                  55                  60  
 Gln Thr Ile Leu Tyr Lys Tyr Tyr Glu Arg Lys Ala Glu Glu Glu Val  
           65                  70                  75                  80  
 Ala Ala Ala Tyr Ala Asp Glu Leu Val Arg Cys Pro Ser Cys Ser Phe  
                   85                  90                  95  
 Pro Ala Leu Leu Asp Ser Asp Val Lys Arg Phe Ser Cys Pro Asn Pro  
           100                  105                  110  
 His Cys Arg Lys Glu Thr Cys Arg Lys Cys Gln Gly Leu Trp Lys Glu  
           115                  120                  125  
 His Asn Gly Leu Thr Cys Glu Glu Leu Ala Glu Lys Asp Asp Ile Lys  
           130                  135                  140  
 Tyr Arg Thr Ser Ile Glu Glu Lys Met Thr Ala Ala Arg Ile Arg Lys  
           145                  150                  155                  160  
 Cys His Lys Cys Gly Thr Gly Leu Ile Lys Ser Glu Gly Cys Asn Arg  
           165                  170                  175  
 Met Ser Cys Arg Cys Gly Ala Gln Met Cys Tyr Leu Cys Arg Val Ser

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<210> 860
<211> 63
<212> PRT
<213> Homo sapiens
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<400> 860
Met Ile Thr Phe Leu Pro Ile Ile Phe Ser Ile Leu Val Val Val Thr
  1                      5                      10                      15

Phe Val Ile Gly Asn Phe Ala Asn Gly Phe Ile Ala Leu Val Asn Ser
      20                      25                      30

Thr Glu Trp Val Lys Arg Gln Lys Ile Ser Phe Ala Asp Gln Ile Val
      35                      40                      45

Thr Ala Leu Ala Val Ser Arg Val Gly Leu Leu Trp Val Leu Leu
      50                      55                      60

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463

<213> Homo sapiens

<400> 861

Leu Thr Met Leu Phe Asn Val Ile

1 5

<210> 862

<211> 7

<212> PRT

<213> Homo sapiens

<400> 862

Thr Tyr Ile His Phe Leu Asp

1 5

<210> 863

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 863

Thr Glu Glu Phe Lys Tyr Ala Val Ser Cys Asn Cys Gly Thr Ala Ala  
1 5 10 15

Trp Val Arg Val Arg Glu Arg Glu Arg Lys Arg Glu Lys Lys Lys Lys  
20 25 30

Lys Arg Xaa Ala Ala Leu Glu Asp Pro Ser Arg Gly Pro Ser Leu Arg  
35 40 45

Val His Ala Thr Ser  
50

<210> 864

<211> 22

<212> PRT

<213> Homo sapiens

<400> 864

Leu Val Leu Phe Ile Thr Leu Leu Pro Gly Lys Leu Ala His Ser Trp  
1 5 10 15

His Thr Val Asn Val Gln  
20

<210> 865

<211> 2

<212> PRT  
<213> Homo sapiens

<400> 865  
Gly Cys  
1

<210> 866  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 866  
Met Ile Leu Tyr Ile Cys Leu Leu Leu Lys Ile Trp Gly Cys Ser Leu  
1 5 10 15  
Pro Cys Asn Phe Ser Phe Pro Leu Asp Leu Arg Lys Val Met Asp Phe  
20 25 30  
Gln Phe Val Gln His Phe Phe Leu  
35 40

<210> 867  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 867  
Ser Phe Cys Met Gly Thr Met  
1 5

<210> 868  
<211> 86  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 868  
Ser Xaa Ile Val Gly Leu Ala Ile Trp Arg Gly Gly Leu Cys Gln Glu  
1 5 10 15  
Leu Pro Leu Glu Arg Phe Leu Leu Xaa Thr Val Phe Gly Ser Asp Leu  
20 25 30  
Ser Leu Leu Ser Gly Gly Asp Leu Cys Leu Glu Leu Leu Gly Gly Leu

35

40

45

Cys Leu Glu Val Cys Leu Arg Gly Asp Ile Cys Leu Gly Pro Leu Arg  
 50 55 60

Val Ser Val Ser Glu Leu Ser Leu Leu Cys Leu Ser Val Gln Gly Gln  
 65 70 75 80

Gln Lys Val Cys Pro Phe  
 85

&lt;210&gt; 869

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 869

Lys Ile Leu Val Ser Tyr Leu Met Pro Gly Met Met Arg Ile Glu Asn  
 1 5 10 15

Phe Ser Ile Phe Met Cys Leu Thr Gly Cys Leu Gly Ile Asn Phe Ala  
 20 25 30

Phe

&lt;210&gt; 870

&lt;211&gt; 288

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (87)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (230)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (263)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (264)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (270)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (275)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 870

Met Ala Arg Ile Ser Phe Ser Tyr Leu Cys Pro Ala Ser Trp Tyr Phe  
 1 5 10 15

Thr Val Pro Thr Val Ser Pro Phe Leu Arg Gln Arg Val Ala Phe Leu  
 20 25 30

Gly Leu Phe Phe Ile Ser Cys Leu Leu Leu Met Leu Ile Ile Asp  
 35 40 45

Phe Arg His Trp Ser Ala Ser Leu Pro Arg Asp Arg Gln Tyr Glu Arg  
 50 55 60

Tyr Leu Ala Arg Val Gly Glu Leu Glu Ala Thr Asp Thr Glu Asp Pro  
 65 70 75 80

Asn Leu Asn Tyr Gly Leu Xaa Val Asp Cys Gly Ser Ser Gly Ser Arg  
 85 90 95

Ile Phe Xaa Tyr Phe Trp Pro Arg His Asn Gly Asn Pro His Asp Leu  
 100 105 110

Leu Asp Ile Lys Gln Met Arg Asp Arg Asn Ser Gln Pro Val Val Lys  
 115 120 125

Lys Ile Lys Pro Gly Ile Ser Ala Met Ala Asp Thr Pro Glu His Ala  
 130 135 140

Ser Asp Tyr Leu Arg Pro Leu Leu Ser Phe Ala Ala Ala His Val Pro  
 145 150 155 160

Val Lys Lys His Lys Glu Thr Pro Leu Tyr Ile Leu Cys Thr Ala Gly  
 165 170 175

Met Arg Leu Leu Pro Glu Arg Lys Gln Leu Ala Ile Leu Ala Asp Leu  
 180 185 190

Val Lys Asp Leu Pro Leu Glu Phe Asp Phe Leu Phe Ser Gln Ser Gln  
 195 200 205

Ala Glu Val Ile Ser Gly Lys Gln Glu Gly Val Tyr Ala Trp Ile Gly  
 210 215 220

Ile Asn Phe Val Leu Xaa Arg Phe Asp His Glu Asp Glu Ser Asp Ala  
 225 230 235 240

Glu Ala Thr Gln Glu Leu Ala Ala Gly Arg Arg Arg Thr Val Gly Ile  
 245 250 255

Leu Asp Met Gly Gly Ala Xaa Xaa Gln Ile Ala Tyr Glu Xaa Pro Thr

260

265

270

Phe Pro Xaa Lys Lys Thr Pro Pro Leu Phe Pro Leu Leu Gly Gly Ile  
           275                                  280                                  285

&lt;210&gt; 871

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 871

Pro Leu Gly Arg Glu Pro Leu Ala Gly Phe Leu Ser Phe Leu Ser Phe  
   1                                  5                                  10                                  15

Ser Leu Leu Trp Cys Leu Glu Ala Phe Pro Arg Leu Gln Phe Leu Thr  
                   20                                  25                                  30

Thr Leu Thr Asp Phe Ala Ile Val Leu Ser Pro Pro Leu Ser Phe Pro  
                   35                                  40                                  45

Lys Leu Thr Leu Trp Arg Leu Ile Lys Arg Lys Asn His Arg Pro Gly  
                   50                                  55                                  60

Ala Xaa Leu Thr Pro Arg Arg Arg Ala Asn His Leu Arg Cys Gly Val  
   65                                  70                                  75                                  80

Arg Asp Gln Pro Asp Gln Asn Arg Glu Thr Pro Ser Leu Leu Asn Asn  
                                   85                                  90                                  95

Thr Lys Leu Ala Gly Arg Gly Gly Ala Arg Leu  
                   100                                  105

&lt;210&gt; 872

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 872



Ser Trp Val Ile Val Val Xaa Ile Trp Gly Tyr Leu Leu Glu Gly His  
 1 5 10 15  
 Gly Val Pro Phe Cys Lys Ser Tyr Gly Pro Xaa Pro Trp Lys Leu His  
 20 25 30  
 Thr His His Ala Ala Tyr Asn Ser Gly Ser Ser Gln Val Tyr Arg Ile  
 35 40 45  
 Leu Gly Asn Ser Pro Cys Pro Val Leu Ile His Cys Ser Phe Ser Gly  
 50 55 60

&lt;210&gt; 873

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 873

Trp Lys Gly Leu Leu Glu Gly Ser Xaa Glu Ala Thr Met Xaa  
 1 5 10

&lt;210&gt; 874

&lt;211&gt; 66..

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 874

Met Ser Trp Val Ile Val Val Ile Ile Trp Gly Tyr Leu Leu Glu Gly  
 1 5 10 15

His Gly Val Pro Phe Cys Lys Ser Tyr Gly Pro Ser Pro Trp Lys Leu  
 20 25 30

His Thr His His Ala Ala Tyr Asn Ser Gly Ser Ser Gln Val Tyr Arg  
 35 40 45

Ile Leu Glu Thr Leu Met Ser Gly Ser Thr His Cys Ser Phe Ser Gly  
 50 55 60

Thr Phe  
 65

<210> 875  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 875  
 Met Pro Arg Ala Pro Trp Arg Ile Pro Leu Cys Ala Leu Pro Thr Leu  
   1                  5                  10                  15  
 Cys Leu Gly Ser Pro Leu Pro Ser Gln Pro Thr His Pro Ile Xaa Tyr  
                   20                  25                  30  
 Asp His Arg Ala Pro Thr Trp Lys Met Ala His Pro Gly Gly Pro Arg  
                   35                  40                  45  
 Ser Ser His Ser Pro Arg Thr Trp Xaa Thr Pro Ser Ser Gln Thr Lys  
                   50                  55                  60  
 Ala Ala Leu Pro Ala Gly Gly Ala Arg Asn Ser Pro Leu Gln Leu Cys  
   65                  70                  75                  80  
 Thr Arg Ser Arg Phe Cys Gly Thr Pro Met  
                   85                  90

<210> 876  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<400> 876  
 Met Pro Arg Ala Pro Trp Arg Ile Pro Leu Cys Ala Leu Pro Thr Leu  
   1                  5                  10                  15  
 Cys Leu Gly Ser Pro Leu Pro Ser Gln Pro Thr His Pro Ile Phe Tyr  
                   20                  25                  30  
 Asp His Arg Ala Pro Thr Trp Lys Met Ala His Pro Gly Gly Pro Arg  
                   35                  40                  45  
 Ser Ser His Ser Pro Arg Gly Pro Gly Gly His Pro Ala Leu Arg Gln  
                   50                  55                  60  
 Arg Leu Pro Cys Arg Arg Gly Glu Pro Glu Thr Ala Leu Cys Ser Ser  
   65                  70                  75                  80  
 Ala Pro Gly Ala Gly Phe Ala Glu Pro Pro Cys Lys Ala Ser Pro Gly  
                   85                  90                  95

Trp Gly Pro Pro Ser Arg Gly Pro Gln Gly Asp Arg Ser Gln Gly Glu  
                   100                  105                  110

Trp Leu Pro Ala Leu Gly Thr Pro Cys Gly Gly Pro Asp Asp Ser  
           115                  120                  125

<210> 877

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 877

Met Ala Gly Gln Phe Arg Ser Tyr Val Trp Asp Pro Leu Leu Ile Leu  
   1                  5                  10                  15

Ser Gln Ile Val Leu Met Gln Thr Val Tyr Tyr Gly Ser Leu Gly Leu  
           20                  25                  30

Trp Leu Ala Leu Val Asp Gly Leu Val Arg Xaa Ala Pro Arg Trp Thr  
           35                  40                  45

Arg Cys Ser Thr Pro Arg Ser Trp Ala Phe Pro Pro Leu Gln Ala Gly  
           50                  55                  60

Ser Pro  
   65

<210> 878

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 878

Thr Gln Ile Pro Thr His Ile Ser Arg Tyr Thr Pro Leu His Ser Ser  
   1                  5                  10                  15

Leu Gly Asn Arg Ala Arg Leu Arg Leu Lys Lys Xaa Lys Ile Lys Tyr  
           20                  25                  30

Ala Tyr Leu Cys Pro Pro Ser Leu Lys Gln Leu Leu Asn Tyr Ala Val  
           35                  40                  45

Ile Asn Gly Leu Ser Ser Ala Asn Tyr Phe Cys Leu Tyr Thr Lys Val  
           50                  55                  60

Pro Gln Ala Met Leu Leu Leu Ala Ser Gly Leu Ser Ser Ala Phe Pro  
65 70 75 80

Tyr Asp Ser Leu Gly Phe Thr Leu Ser Met Leu Leu Phe Phe Glu Arg  
85 90 95

Asn Lys Ser Arg Val Glu Val Leu Ala Lys Glu Pro Ser Ala Pro Ser  
100 105 110

Ser Tyr Trp Asp Ser Glu Asn Arg Gly Cys Gln Leu  
115 120

<210> 879

<211> 39

<212> PRT

<213> Homo sapiens

<400> 879

Met Ala Gly Gln Phe Arg Ser Tyr Val Trp Asp Pro Leu Leu Ile Leu  
1 5 10 15

Ser Gln Ser Ser Ser Cys Arg Pro Cys Ile Thr Ala Arg Trp Ala Cys  
20 25 30

Gly Trp Arg Trp Trp Thr Gly  
35

<210> 880

<211> 67

<212> PRT

<213> Homo sapiens

<400> 880

Met Ser Leu Cys Arg Ile Leu Gly Tyr Ser Phe Ser Ser Arg Leu Ser  
1 5 10 15

Ser Leu Ile Leu Pro Leu Ala Val Phe His Tyr Cys Leu Ser Cys Pro  
20 25 30

Leu His Phe Lys Leu Ser Phe Lys Tyr Leu Pro Phe Pro Ser Phe Pro  
35 40 45

Phe Ser Ser Leu Pro Cys Pro Ala Leu Pro Cys Pro Ala Leu Pro Ser  
50 55 60

Pro Pro Leu  
65

<210> 881

<211> 86

<212> PRT

<213> Homo sapiens

<400> 881

Met Ser Leu Cys Arg Ile Leu Gly Tyr Ser Phe Ser Ser Arg Leu Ser  
 1 5 10 15  
 Ser Leu Ile Leu Pro Leu Ala Val Phe His Tyr Cys Leu Ser Cys Pro  
 20 25 30  
 Leu His Phe Lys Leu Ser Phe Lys Tyr Leu Pro Phe Pro Ser Phe Pro  
 35 40 45  
 Phe Ser Ser Leu Pro Cys Pro Ala Leu Pro Cys Pro Ala Leu Pro Ser  
 50 55 60  
 Pro Pro Leu Pro Cys Pro Pro Leu Pro Ser Pro Pro Leu Pro Leu Pro  
 65 70 75 80  
 Ser Leu Ser Phe Phe Arg  
 85

<210> 882  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 882  
 Met Cys Val Gly Leu Phe Leu Ser Ser Val Phe Phe His Ile Cys Val  
 1 5 10 15  
 His Pro Phe Ala Asn Ala Thr Leu Ser Cys Leu Leu Glu Ile Gly Lys  
 20 25 30  
 Leu Cys Glu Ser Phe Asn Phe Val Leu Phe Gln Ile Val Leu Ala Ile  
 35 40 45  
 Leu Val Pro Leu Thr Phe Ile  
 50 55

<210> 883  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 883  
 Thr Leu Phe Val Ser Tyr Gln Leu Ser Asn Pro Gln Tyr Ser Ser Phe  
 1 5 10 15  
 Ile Ser Gln Asn Arg Lys Leu Lys Gln Arg Glu Glu Lys Leu His Glu  
 20 25 30  
 Arg Phe Tyr Thr Ala Val Arg Ser Leu Asn Trp Ile Leu Asn Leu Ala  
 35 40 45  
 Phe Trp Leu Glu Ser Pro Ser Phe Tyr Gln Leu Cys Ile Ala Val Arg  
 50 55 60  
 Val Asp Ser Pro Trp Lys Gly Lys Ser  
 65 70

Ser Met Lys Asn Ala Ile Gly Ile Leu Ile Gly Ile Ala Leu Asn Leu  
35 40 45

Ser Met Lys Asn Ala Ile Gly Ile Leu Ile Gly Ile Ala Leu Asn Leu  
35 40 45

&lt;222&gt; (199)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (206)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (214)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 886

Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg  
 1 5 10 15

Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Cys Pro Gly Val Trp Pro  
 20 25 30

Arg Thr Trp Pro His Arg Ser Pro Ser Arg Gly Ser Ser Ser Arg Asp  
 35 40 45

Lys Asp Arg Ser Ala Thr Val Ser Ser Ser Val Pro Met Pro Ala Gly  
 50 55 60

Gly Lys Gly Ser His Pro Ser Ser Thr Pro Gln Arg Val Pro Asn Arg  
 65 70 75 80

Leu Ile His Glu Lys Ser Pro Tyr Leu Leu Gln His Ala Tyr Asn Pro  
 85 90 95

Val Asp Trp Tyr Pro Trp Gly Gln Glu Ala Phe Asp Lys Ala Arg Lys  
 100 105 110

Glu Asn Lys Pro Ile Phe Leu Ser Val Gly Tyr Ser Thr Cys His Trp  
 115 120 125

Cys His Met Met Glu Glu Glu Ser Phe Gln Asn Glu Glu Ile Gly Arg  
 130 135 140

Leu Leu Ser Glu Asp Phe Val Ser Val Lys Val Asp Arg Glu Glu Arg  
 145 150 155 160

Pro Asp Val Asp Lys Val Tyr Met Thr Phe Val Gln Ala Thr Ser Ser  
 165 170 175

Gly Gly Gly Trp Pro Met Asn Val Trp Leu Thr Pro Asn Leu Gln Pro  
 180 185 190

Phe Val Gly Gly Thr Ile Xaa Leu Leu Lys Asp Gly Leu Xaa Arg Val  
 195 200 205

Gly Ser Ala Gln Cys Xaa  
 210

&lt;210&gt; 887

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 887

Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg  
 1 5 10 15

Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Ser Ala Cys Ser Pro Thr  
 20 25 30

Ser Arg Leu Asn Ser Leu Arg Ser Leu Ile Pro  
 35 40

&lt;210&gt; 888

&lt;211&gt; 802

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 888

Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg  
 1 5 10 15

Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Cys Pro Gly Val Trp Pro  
 20 25 30

Arg Thr Trp Pro His Arg Ser Pro Ser Arg Gly Ser Ser Ser Arg Asp  
 35 40 45

Lys Asp Arg Ser Ala Thr Val Ser Ser Ser Val Pro Met Pro Ala Gly  
 50 55 60

Gly Lys Gly Ser His Pro Ser Ser Thr Pro Gln Arg Val Pro Asn Arg  
 65 70 75 80

Leu Ile His Glu Lys Ser Pro Tyr Leu Leu Gln His Ala Tyr Asn Pro  
 85 90 95

Val Asp Trp Tyr Pro Trp Gly Gln Glu Ala Phe Asp Lys Ala Arg Lys  
 100 105 110

Glu Asn Lys Pro Ile Phe Leu Ser Val Gly Tyr Ser Thr Cys His Trp  
 115 120 125

Cys His Met Met Glu Glu Glu Ser Phe Gln Asn Glu Glu Ile Gly Arg  
 130 135 140

Leu Leu Ser Glu Asp Phe Val Ser Val Lys Val Asp Arg Glu Glu Arg  
 145 150 155 160

Pro Asp Val Asp Lys Val Tyr Met Thr Phe Val Gln Ala Thr Ser Ser  
 165 170 175

Gly Gly Gly Trp Pro Met Asn Val Trp Leu Thr Pro Asn Leu Gln Pro  
 180 185 190

Phe Val Gly Gly Thr Tyr Phe Pro Pro Glu Asp Gly Leu Thr Arg Val  
 195 200 205



Gly Phe Arg Thr Val Leu Leu Arg Ile Arg Glu Gln Trp Lys Gln Asn  
 210 215 220  
 Lys Asn Thr Leu Leu Glu Asn Ser Gln Arg Val Thr Thr Ala Leu Leu  
 225 230 235 240  
 Ala Arg Ser Glu Ile Ser Val Gly Asp Arg Gln Leu Pro Pro Ser Ala  
 245 250 255  
 Ala Thr Val Asn Asn Arg Cys Phe Gln Gln Leu Asp Glu Gly Tyr Asp  
 260 265 270  
 Glu Glu Tyr Gly Gly Phe Ala Glu Ala Pro Lys Phe Pro Thr Pro Val  
 275 280 285  
 Ile Leu Ser Phe Leu Phe Ser Tyr Trp Leu Ser His Arg Leu Thr Gln  
 290 295 300  
 Asp Gly Ser Arg Ala Gln Gln Met Ala Leu His Thr Leu Lys Met Met  
 305 310 315 320  
 Ala Asn Gly Gly Ile Arg Asp His Val Gly Gln Gly Phe His Arg Tyr  
 325 330 335  
 Ser Thr Asp Arg Gln Trp His Val Pro His Phe Glu Lys Met Leu Tyr  
 340 345 350  
 Asp Gln Ala Gln Leu Ala Val Ala Tyr Ser Gln Ala Phe Gln Leu Ser  
 355 360 365  
 Gly Asp Glu Phe Tyr Ser Asp Val Ala Lys Gly Ile Leu Gln Tyr Val  
 370 375 380  
 Ala Arg Ser Leu Ser His Arg Ser Gly Gly Phe Tyr Ser Ala Glu Asp  
 385 390 395 400  
 Ala Asp Ser Pro Pro Glu Arg Gly Gln Arg Pro Lys Glu Gly Ala Tyr  
 405 410 415  
 Tyr Val Trp Thr Val Lys Glu Val Gln Gln Leu Leu Pro Glu Pro Val  
 420 425 430  
 Leu Gly Ala Thr Glu Pro Leu Thr Ser Gly Gln Leu Leu Met Lys His  
 435 440 445  
 Tyr Gly Leu Thr Glu Ala Gly Asn Ile Ser Pro Ser Gln Asp Pro Lys  
 450 455 460  
 Gly Glu Leu Gln Gly Gln Asn Val Leu Thr Val Arg Tyr Ser Leu-Glu  
 465 470 475 480  
 Leu Thr Ala Ala Arg Phe Gly Leu Asp Val Glu Ala Val Arg Thr Leu  
 485 490 495  
 Leu Asn Ser Gly Leu Glu Lys Leu Phe Gln Ala Arg Lys His Arg Pro  
 500 505 510  
 Lys Pro His Leu Asp Ser Lys Met Leu Ala Ala Trp Asn Gly Leu Met  
 515 520 525

Val Ser Gly Tyr Ala Val Thr Gly Ala Val Leu Gly Gln Asp Arg Leu  
 530 535 540  
 Ile Asn Tyr Ala Thr Asn Gly Ala Lys Phe Leu Lys Arg His Met Phe  
 545 550 555 560  
 Asp Val Ala Ser Gly Arg Leu Met Arg Thr Cys Tyr Thr Gly Pro Gly  
 565 570 575  
 Gly Thr Val Glu His Ser Asn Pro Pro Cys Trp Gly Phe Leu Glu Asp  
 580 585 590  
 Tyr Ala Phe Val Val Arg Gly Leu Leu Asp Leu Tyr Glu Ala Ser Gln  
 595 600 605  
 Glu Ser Ala Trp Leu Glu Trp Ala Leu Arg Leu Gln Asp Thr Gln Asp  
 610 615 620  
 Arg Leu Phe Trp Asp Ser Gln Gly Gly Gly Tyr Phe Cys Ser Glu Ala  
 625 630 635 640  
 Glu Leu Gly Ala Gly Leu Pro Leu Arg Leu Lys Asp Asp Gln Asp Gly  
 645 650 655  
 Ala Glu Pro Ser Ala Asn Ser Val Ser Ala His Asn Leu Leu Arg Leu  
 660 665 670  
 His Gly Phe Thr Gly His Lys Asp Trp Met Asp Lys Cys Val Cys Leu  
 675 680 685  
 Leu Thr Ala Phe Ser Glu Arg Met Arg Arg Val Pro Val Ala Leu Pro  
 690 695 700  
 Glu Met Val Arg Ala Leu Ser Ala Gln Gln Gln Thr Leu Lys Gln Ile  
 705 710 715 720  
 Val Ile Cys Gly Asp Arg Gln Ala Lys Asp Thr Lys Ala Leu Val Gln  
 725 730 735  
 Cys Val His Ser Val Tyr Ile Pro Asn Lys Val Leu Ile Leu Ala Asp  
 740 745 750  
 Gly Asp Pro Ser Ser Phe Leu Ser Arg Gln Leu Pro Phe Leu Ser Thr  
 755 760 765  
 Leu Arg Arg Leu Glu Asp Gln Ala Thr Ala Tyr Val Cys Glu Asn Gln  
 770 775 780  
 Ala Cys Ser Val Pro Ile Thr Asp Pro Cys Glu Leu Arg Lys Leu Leu  
 785 790 795 800  
 His Pro

&lt;210&gt; 889

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 889

Met His Cys Cys Gln Leu Pro Trp Arg Cys Ala Gln Ala Pro Gln Glu  
 1 5 10 15

Ala Phe Leu Leu Cys Leu Leu Phe Leu Ile Leu Val Leu Val Leu Leu  
 20 25 30

Gly Cys Ser Arg Gly Leu Pro Gly His Thr Pro Trp Arg Leu His Pro  
 35 40 45

Ala Ala Ala Ala Leu Leu Ala Pro Leu Leu His Asp Ala Leu Gly Ala  
 50 55 60

Cys Gly Phe Gln Gly Pro Glu Tyr Leu Leu Pro Cys Leu Leu Pro Leu  
 65 70 75 80

Pro Lys Pro Gly Gln Leu Gln Gly Pro Trp Gly Pro Leu Trp Ala Leu  
 85 90 95

Leu Pro

&lt;210&gt; 890

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 890

Cys Ala Val Arg Phe Arg Glu Gln Xaa Ala Pro Glu Arg Val Phe Leu  
 1 5 10 15

Pro Thr Arg Gly Arg Lys Ser Glu Pro  
 20 25

&lt;210&gt; 891

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 891

Leu Pro Arg Pro Cys Ala Pro Ser Pro Val Trp Arg Gln Val Gly Arg  
 1 5 10 15

Glu Glu Ala Ser Leu Leu  
 20

&lt;210&gt; 892

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 892

Met His Cys Cys Gln Leu Pro Trp Arg Cys Ala Gln Ala Pro Gln Glu  
 1 5 10 15

Ala Phe Leu Leu Cys Leu Leu Phe Leu Ile Leu Val Leu Val Leu Leu  
 20 25 30

Gly Cys Ser Arg Gly Leu Pro Gly His Thr Pro Trp Arg Leu His Pro  
 35 40 45

Ala Ala Ala Ala Leu Leu Ala Pro Leu Leu His Asp Ala Leu Gly Ala  
 50 55 60

Cys Gly Phe Gln Gly Pro Glu Tyr Leu Leu Pro Cys Leu Leu Pro Leu  
 65 70 75 80

Pro Lys Pro Gly Gln Leu Gln Gly Pro Trp Gly Pro Leu Trp Ala Leu  
 85 90 95

Leu Pro

&lt;210&gt; 893

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 893

Ser Lys Ser Asn Pro Lys Pro Arg Cys Gln Lys Gly Thr Pro Trp Val  
 1 5 10 15

Ile Arg Pro His Phe His Ser Asp Gly Val Ala Ser Ser Lys Thr Gly  
 20 25 30

Leu Thr Val Phe Gln Met Ser Gly Leu Gln Ala Pro Ile Pro Ser Arg  
 35 40 45

Cys Ser Ala Ala Ala Leu Ile Leu Arg Gly Gly Leu Pro Cys Thr Pro  
 50 55 60

Leu Glu Ala Phe His Trp Gly Asn Cys Leu Pro Gly Ser Ala Leu Arg  
 65 70 75 80

Ile Arg Ile Ala Lys Ala Gly Gln Ser Leu Pro Gln Gly Cys Ser Thr  
 85 90 95

Gly Gln Ala

&lt;210&gt; 894

&lt;211&gt; 89

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 894

Met Lys Pro Ala Thr Ala Ser Ala Leu Leu Leu Leu Leu Gly Leu  
 1 5 10 15

Ala Trp Thr Gln Gly Ser His Gly Trp Gly Ala Asp Ala Ser Ser Leu  
 20 25 30

Gln Lys Arg Ala Gly Arg Ala Asp Gln Val Ser Leu Cys Pro Gln Val  
 35 40 45

Thr Leu Gln Gly Pro Trp Ser Pro Leu Ala Leu Leu Pro Gly Leu Gly  
 50 55 60

Asn Leu Lys Phe Ser Phe Thr Pro Pro Phe Asn Gly Phe Leu Ser Arg  
 65 70 75 80

Val Gln Asp Gly Arg Arg Trp Gln Leu  
 85

&lt;210&gt; 895

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 895

Met Ala Gly Asn Ile Gln Ala Val Glu Thr Gly Tyr Val Leu Ile Cys  
 1 5 10 15

Leu Ile Val Pro Leu Leu Leu Cys Gly Leu Arg Glu Gly Gln Glu Val  
 20 25 30

Pro Phe Asp Val Asn Lys Ala Lys Tyr Leu Pro Thr Phe Leu Lys Lys  
 35 40 45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
 50 55 60

Lys Lys Lys Lys Lys Lys Lys Lys Ile  
 65 70

&lt;210&gt; 896

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 896

Met Ala Gly Asn Ile Gln Ala Val Glu Thr Gly Tyr Val Leu Ile Cys  
 1 5 10 15

Leu Ile Val Pro Leu Leu Leu Cys Gly Leu Arg Glu Gly Gln Glu Val  
 20 25 30

Pro Phe Asp Val Asn Lys Ala Lys Tyr Leu Pro Thr Phe Leu Lys Lys  
 35 40 45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
 50 55 60

Lys Lys Lys Lys Lys Lys Lys Lys  
 65 70

<210> 897  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 897  
 Met Tyr Val Trp Val Ser Gly Ala Leu Val Leu Val Leu Ser Pro His  
 1 5 10 15

Pro Ala Ser Arg Thr Leu Cys Leu Met Xaa Gln Ala Xaa  
 20 25

<210> 898  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 898  
 Pro His Cys Ala Ser Arg Ala Val Pro Tyr Pro Pro Gly Pro Ala Ala  
 1 5 10 15

Ala Ala Phe Pro Arg Gln Gly Leu Gln Leu Ala Thr Thr Cys Gly His  
 20 25 30

Ser Ser Asp Pro Ala Cys Phe Gly Gln Cys Pro Cys His Leu Cys Ala  
 35 40 45

Asn His Pro Gly Tyr Leu Trp Ser Tyr Arg Val His Leu Ser Pro Gln  
 50 55 60

Pro His Leu His Pro Pro Gln His Leu Leu Pro Pro His Cys Thr Leu  
 65 70 75 80

<210> 899  
 <211> 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 899

Met Tyr Val Trp Val Ser Gly Ala Leu Val Leu Val Leu Ser Pro His  
1 5 10 15

Pro Ala Ser Arg Thr Leu Cys Leu Met Ala Gln Ala Val  
20 25

&lt;210&gt; 900

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 900

Met Arg Ile Pro Val Phe Pro Lys Gln Leu Met Phe Thr Gly Leu Val  
1 5 10 15

Phe Leu Leu Leu Leu Ser Lys Asp Glu Gly Ile His Asn Arg Leu Ser  
20 25 30

Leu Glu Asn Thr Asn Asp Gly Gln Leu Phe Gly Val Ile Asn Glu Leu  
35 40 45

Ala Thr Thr Leu Met  
50

&lt;210&gt; 901

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 901

Met Arg Ile Pro Val Phe Pro Lys Gln Leu Met Phe Thr Gly Leu Val  
1 5 10 15

Phe Leu Leu Leu Leu Ser Lys Asp Glu Gly Ile His Asn Arg Leu Ser  
20 25 30

Leu Glu Asn Thr Asn Asp Gly Gln Leu Phe Gly Val Ile Lys  
35 40 45

&lt;210&gt; 902

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 902

Met Pro Phe Thr Leu Gly Xaa Thr Arg Arg Xaa Arg Gly Leu Ala Lys  
 1 5 10 15

Lys Pro Lys

&lt;210&gt; 903

&lt;211&gt; 531

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 903

Met Leu Cys Ala Leu Leu Leu Leu Pro Ser Leu Leu Gly Ala Thr Arg  
 1 5 10 15

Ala Ser Pro Thr Ser Gly Pro Gln Glu Cys Ala Lys Gly Ser Thr Val  
 20 25 30

Trp Cys Gln Asp Leu Gln Thr Ala Ala Arg Cys Gly Ala Val Gly Tyr  
 35 40 45

Cys Gln Gly Ala Val Trp Asn Lys Pro Thr Ala Lys Ser Leu Pro Cys  
 50 55 60

Asp Val Cys Gln Asp Ile Ala Ala Ala Ala Gly Asn Gly Leu Asn Pro  
 65 70 75 80

Asp Ala Thr Glu Ser Asp Ile Leu Ala Leu Val Met Lys Thr Cys Glu  
 85 90 95

Trp Leu Pro Ser Gln Glu Ser Ser Ala Gly Cys Lys Trp Met Val Asp  
 100 105 110

Ala His Ser Ser Ala Ile Leu Ser Met Leu Arg Gly Ala Pro Asp Ser  
 115 120 125

Ala Pro Ala Gln Val Cys Thr Ala Leu Ser Leu Cys Glu Pro Leu Gln  
 130 135 140

Arg His Leu Ala Thr Leu Arg Pro Leu Ser Lys Glu Asp Thr Phe Glu  
 145 150 155 160

Ala Val Ala Pro Phe Met Ala Asn Gly Pro Leu Thr Phe His Pro Arg  
 165 170 175

Gln Ala Pro Glu Gly Ala Leu Cys Gln Asp Cys Val Arg Gln Val Ser  
 180 185 190

Arg Leu Gln Glu Ala Val Arg Ser Asn Leu Thr Leu Ala Asp Leu Asn  
 195 200 205

Ile Gln Glu Gln Cys Glu Ser Leu Gly Pro Gly Leu Ala Val Leu Cys  
 210 215 220



Lys Asn Tyr Leu Phe Gln Phe Phe Val Pro Ala Asp Gln Ala Leu Arg  
 225 230 235 240  
 Leu Leu Pro Pro Gln Glu Leu Cys Arg Lys Gly Gly Phe Cys Glu Glu  
 245 250 255  
 Leu Gly Ala Pro Ala Arg Leu Thr Gln Val Val Ala Met Asp Gly Val  
 260 265 270  
 Pro Ser Leu Glu Leu Gly Leu Pro Arg Lys Gln Ser Glu Met Gln Met  
 275 280 285  
 Lys Ala Gly Val Thr Cys Glu Val Cys Met Asn Val Val Gln Lys Leu  
 290 295 300  
 Asp His Trp Leu Met Ser Asn Ser Ser Glu Leu Met Ile Thr His Ala  
 305 310 315 320  
 Leu Glu Arg Val Cys Ser Val Met Pro Ala Ser Ile Thr Lys Glu Cys  
 325 330 335  
 Ile Ile Leu Val Asp Thr Tyr Ser Pro Ser Leu Val Gln Leu Val Ala  
 340 345 350  
 Lys Ile Thr Pro Glu Lys Val Cys Lys Phe Ile Arg Leu Cys Gly Asn  
 355 360 365  
 Arg Arg Arg Ala Arg Ala Val His Asp Ala Tyr Ala Ile Val Pro Ser  
 370 375 380  
 Pro Glu Trp Asp Ala Glu Asn Gln Gly Ser Phe Cys Asn Gly Cys Lys  
 385 390 395 400  
 Arg Leu Leu Thr Val Ser Ser His Asn Leu Glu Ser Lys Ser Thr Lys  
 405 410 415  
 Arg Asp Ile Leu Val Ala Phe Lys Gly Gly Cys Ser Ile Leu Pro Leu  
 420 425 430  
 Pro Tyr Met Ile Gln Cys Lys His Phe Val Thr Gln Tyr Glu Pro Val  
 435 440 445  
 Leu Ile Glu Ser Leu Lys Asp Met Met Asp Pro Val Ala Val Cys Lys  
 450 455 460  
 Lys Val Gly Ala Cys His Gly Pro Arg Thr Pro Leu Leu Gly Thr Asp  
 465 470 475 480  
 Gln Cys Ala Leu Gly Pro Ser Phe Trp Cys Arg Ser Gln Glu Ala Ala  
 485 490 495  
 Ser Cys Ala Thr Leu Cys Asn Thr Ala Arg Ser Met Tyr Gly Lys Arg  
 500 505 510  
 Cys Thr Ser Thr Leu Gly Asn Thr Arg Asp Arg Gly Cys Gln Arg Pro  
 515 520 525  
 Arg Ala Cys  
 530

<210> 904  
 <211> 498  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (398)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 904  
 Glu Ala Leu Gly Gly Arg Cys Leu Trp Glu Xaa Pro Val Thr Phe Thr  
 1 5 10 15  
 Val His Phe Xaa Asp Asn Ser Gly Asp Val Phe His Ala His Ser Ser  
 20 25 30  
 Val Leu Asn Phe Ala Thr Asn Arg Asp Asp Phe Val Gln Ile Gly Lys  
 35 40 45  
 Gly Pro Thr Asn Asn Thr Cys Val Val Arg Thr Val Ser Val Gly Leu  
 50 55 60  
 Thr Leu Leu Arg Val Trp Asp Ala Glu His Pro Gly Leu Ser Asp Phe  
 65 70 75 80  
 Met Pro Leu Pro Val Leu Gln Ala Ile Ser Pro Glu Leu Ser Gly Ala  
 85 90 95  
 Met Val Val Gly Asp Val Leu Cys Leu Ala Thr Val Leu Thr Ser Leu  
 100 105 110  
 Glu Gly Leu Ser Gly Thr Trp Ser Ser Ser Ala Asn Ser Ile Leu His  
 115 120 125  
 Ile Asp Pro Lys Thr Gly Val Ala Val Ala Arg Ala Val Gly Ser Val  
 130 135 140  
 Thr Val Tyr Tyr Glu Val Ala Gly His Leu Arg Thr Tyr Lys Glu Val  
 145 150 155 160  
 Val Val Ser Val Pro Gln Arg Ile Met Ala Arg His Leu His Pro Ile  
 165 170 175  
 Gln Thr Ser Phe Gln Glu Ala Thr Ala Ser Lys Val Ile Val Ala Val  
 180 185 190

Gly Asp Arg Ser Ser Asn Leu Arg Gly Glu Cys Thr Pro Thr Gln Arg  
 195 200 205  
 Glu Val Ile Gln Ala Leu His Pro Glu Thr Leu Ile Ser Cys Gln Ser  
 210 215 220  
 Gln Phe Lys Pro Ala Val Phe Asp Phe Pro Ser Gln Asp Val Phe Thr  
 225 230 235 240  
 Val Glu Pro Gln Phe Asp Thr Ala Leu Gly Gln Tyr Phe Cys Ser Ile  
 245 250 255  
 Thr Met His Arg Leu Thr Asp Lys Gln Arg Lys His Leu Ser Met Lys  
 260 265 270  
 Lys Thr Ala Leu Val Val Ser Ala Ser Leu Ser Ser Ser His Phe Ser  
 275 280 285  
 Thr Glu Gln Val Gly Ala Glu Val Pro Phe Ser Pro Gly Leu Phe Ala  
 290 295 300  
 Asp Gln Ala Glu Ile Leu Leu Ser Asn His Tyr Thr Ser Ser Glu Ile  
 305 310 315 320  
 Arg Val Phe Gly Ala Pro Glu Val Leu Glu Asn Leu Glu Val Lys Ser  
 325 330 335  
 Gly Ser Pro Ala Val Leu Ala Phe Ala Lys Glu Lys Ser Phe Gly Trp  
 340 345 350  
 Pro Ser Phe Ile Thr Tyr Thr Val Gly Val Leu Asp Pro Ala Ala Gly  
 355 360 365  
 Ser Gln Gly Pro Leu Ser Thr Thr Leu Thr Phe Ser Ser Pro Val Thr  
 370 375 380  
 Asn Gln Ala Ile Ala Ile Pro Val Thr Val Ala Phe Val Xaa Asp Arg  
 385 390 395 400  
 Arg Gly Pro Gly Pro Tyr Gly Ala Ser Leu Phe Gln His Phe Leu Asp  
 405 410 415  
 Ser Tyr Gln Val Met Phe Phe Thr Leu Phe Ala Leu Leu Ala Gly Thr  
 420 425 430  
 Ala Val Met Ile Ile Ala Tyr His Thr Val Cys Thr Pro Arg Asp Leu  
 435 440 445  
 Ala Val Pro Ala Ala Leu Thr Pro Arg Ala Ser Pro Gly His Ser Pro  
 450 455 460  
 His Tyr Phe Ala Ala Ser Ser Pro Thr Ser Pro Asn Ala Leu Pro Pro  
 465 470 475 480  
 Ala Arg Lys Ala Ser Pro Pro Ser Gly Leu Trp Ser Pro Ala Tyr Ala  
 485 490 495  
 Ser His

<210> 905  
 <211> 886  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (216)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (234)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (275)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (871)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 905  
 Met Ala Ala Arg Gly Arg Gly Leu Leu Leu Leu Thr Leu Ser Val Leu  
           1                  5                          10                          15  
 Leu Ala Ala Gly Pro Ser Ala Ala Ala Xaa Lys Leu Asn Ile Pro Lys  
                   20                          25                          30  
 Val Leu Leu Pro Phe Thr Arg Ala Thr Arg Val Asn Phe Thr Leu Glu  
                   35                          40                          45  
 Ala Ser Glu Gly Cys Tyr Arg Trp Leu Ser Thr Arg Pro Glu Val Ala  
           50                          55                          60  
 Ser Ile Glu Pro Leu Gly Leu Asp Glu Gln Gln Cys Ser Gln Lys Ala  
           65                          70                          75                          80  
 Val Val Gln Ala Arg Leu Thr Gln Pro Ala Arg Leu Thr Ser Ile Ile  
                   85                          90                          95  
 Phe Ala Glu Asp Ile Thr Thr Gly Gln Val Leu Arg Cys Asp Ala Ile  
                   100                          105                          110  
 Val Asp Leu Ile His Asp Ile Gln Ile Val Ser Thr Thr Arg Glu Leu  
                   115                          120                          125  
 Tyr Leu Glu Asp Ser Pro Leu Glu Leu Lys Ile Gln Ala Leu Asp Ser  
           130                          135                          140

Glu Gly Asn Thr Phe Ser Thr Leu Ala Gly Leu Val Phe Glu Trp Thr  
 145 150 155 160  
 Ile Val Lys Asp Ser Glu Ala Asp Arg Phe Ser Asp Ser His Asn Ala  
 165 170 175  
 Leu Arg Ile Leu Thr Phe Leu Glu Ser Thr Tyr Ile Pro Pro Ser Tyr  
 180 185 190  
 Ile Ser Glu Met Glu Lys Ala Ala Lys Gln Gly Asp Thr Ile Leu Val  
 195 200 205  
 Ser Gly Met Lys Thr Gly Ser Xaa Lys Leu Lys Ala Arg Ile Gln Glu  
 210 215 220  
 Ala Val Tyr Lys Asn Val Arg Pro Ala Xaa Val Arg Leu Leu Ile Leu  
 225 230 235 240  
 Glu Asn Ile Leu Leu Asn Pro Ala Tyr Asp Val Tyr Leu Met Val Gly  
 245 250 255  
 Thr Ser Ile His Tyr Lys Val Gln Lys Ile Arg Gln Gly Lys Ile Thr  
 260 265 270  
 Glu Leu Xaa Met Pro Ser Asp Gln Tyr Glu Leu Gln Leu Gln Asn Ser  
 275 280 285  
 Ile Pro Gly Pro Glu Gly Asp Pro Thr Arg Pro Val Ala Val Leu Ala  
 290 295 300  
 Gln Asp Thr Ser Met Val Thr Ala Leu Gln Leu Gly Gln Ser Ser Leu  
 305 310 315 320  
 Val Leu Gly His Arg Ser Ile Arg Met Gln Gly Ala Ser Arg Leu Pro  
 325 330 335  
 Asn Ser Thr Ile Tyr Val Val Glu Pro Gly Tyr Leu Gly Phe Thr Val  
 340 345 350  
 His Pro Gly Asp Arg Trp Val Leu Glu Thr Gly Arg Leu Tyr Glu Ile  
 355 360 365  
 Thr Ile Glu Val Phe Asp Lys Phe Ser Asn Lys Val Tyr Val Ser Asp  
 370 375 380  
 Asn Ile Arg Ile Glu Thr Val Leu Pro Ala Glu Phe Phe Glu Val Leu  
 385 390 395 400  
 Ser Ser Ser Gln Asn Gly Ser Tyr His Arg Ile Arg Ala Leu Lys Arg  
 405 410 415  
 Gly Gln Thr Ala Ile Asp Ala Ala Leu Thr Ser Val Val Asp Gln Asp  
 420 425 430  
 Gly Gly Val His Ile Leu Gln Val Pro Val Trp Asn Gln Gln Glu Val  
 435 440 445  
 Glu Ile His Ile Pro Ile Thr Leu Tyr Pro Ser Ile Leu Thr Phe Pro  
 450 455 460

Trp Gln Pro Lys Thr Gly Ala Tyr Gln Tyr Thr Ile Arg Ala His Gly  
 465 470 475 480  
 Gly Ser Gly Asn Phe Ser Trp Ser Ser Ser Ser His Leu Val Ala Thr  
 485 490 495  
 Val Thr Val Lys Gly Val Met Thr Thr Gly Ser Asp Ile Gly Phe Ser  
 500 505 510  
 Val Ile Gln Ala His Asp Val Gln Asn Pro Leu His Phe Gly Glu Met  
 515 520 525  
 Lys Val Tyr Val Ile Glu Pro His Ser Met Glu Phe Ala Pro Cys Gln  
 530 535 540  
 Val Glu Ala Arg Val Gly Gln Ala Leu Glu Leu Pro Leu Arg Ile Ser  
 545 550 555 560  
 Gly Leu Met Pro Gly Gly Ala Ser Glu Val Val Thr Leu Ser Asp Cys  
 565 570 575  
 Ser His Phe Asp Leu Ala Val Glu Val Glu Asn Gln Gly Val Phe Gln  
 580 585 590  
 Pro Leu Pro Gly Arg Leu Pro Pro Gly Ser Glu His Cys Ser Gly Val  
 595 600 605  
 Arg Val Lys Ala Glu Ala Gln Gly Ser Thr Thr Leu Leu Val Ser Tyr  
 610 615 620  
 Arg His Gly His Val His Leu Ser Ala Lys Ile Thr Ile Ala Ala Tyr  
 625 630 635 640  
 Leu Pro Leu Lys Ala Val Asp Pro Ser Ser Val Ala Leu Val Thr Leu  
 645 650 655  
 Gly Ser Ser Lys Glu Met Leu Phe Glu Gly Gly Pro Arg Pro Trp Ile  
 660 665 670  
 Leu Glu Pro Ser Lys Phe Phe Gln Asn Val Thr Ala Glu Asp Thr Asp  
 675 680 685  
 Ser Ile Gly Leu Ala Leu Phe Ala Pro His Ser Ser Arg Asn Tyr Gln  
 690 695 700  
 Gln His Trp Ile Leu Val Thr Cys Gln Ala Leu Gly Glu Gln Val Ile  
 705 710 715 720  
 Ala Leu Ser Val Gly Asn Lys Pro Ser Leu Thr Asn Pro Phe Pro Ala  
 725 730 735  
 Val Glu Pro Ala Val Val Lys Phe Val Cys Ala Pro Pro Ser Arg Leu  
 740 745 750  
 Thr Leu Val Pro Val Tyr Thr Ser Pro Gln Leu Asp Met Ser Cys Pro  
 755 760 765  
 Leu Leu Gln Gln Asn Lys Gln Val Val Pro Val Ser Ser His Arg Asn  
 770 775 780

Pro Leu Leu Asp Leu Ala Ala Tyr Asp Gln Glu Gly Arg Arg Phe Asp  
785 790 795 800

Asn Phe Ser Ser Leu Ser Ile Gln Trp Glu Ser Thr Arg Pro Val Leu  
805 810 815

Ala Ser Ile Glu Pro Glu Leu Pro Met Gln Leu Val Ser Gln Asp Asp  
820 825 830

Glu Ser Gly Gln Lys Lys Leu His Gly Leu Gln Ala Ile Leu Val His  
835 840 845

Glu Ala Ser Gly Thr Thr Ala Ser Leu Pro Leu Pro Leu Ala Thr Arg  
850 855 860

Ser Pro Thr Ser Ala Leu Xaa Glu Gln Ser Ser Arg Met Thr Leu Trp  
865 870 875 880

Cys Leu Cys Arg Pro Pro  
885

<210> 906

<211> 1887

<212> PRT

<213> Homo sapiens

<400> 906

Met Ala Ala Arg Gly Arg Gly Leu Leu Leu Leu Thr Leu Ser Val Leu  
1 5 10 15

Leu Ala Ala Gly Pro Ser Ala Ala Ala Lys Leu Asn Ile Pro Lys  
20 25 30

Val Leu Leu Pro Phe Thr Arg Ala Thr Arg Val Asn Phe Thr Leu Glu  
35 40 45

Ala Ser Glu Gly Cys Tyr Arg Trp Leu Ser Thr Arg Pro Glu Val Ala  
50 55 60

Ser Ile Glu Pro Leu Gly Leu Asp Glu Gln Gln Cys Ser Gln Lys Ala  
65 70 75 80

Val Val Gln Ala Arg Leu Thr Gln Pro Ala Arg Leu Thr Ser Ile Ile  
85 90 95

Phe Ala Glu Asp Ile Thr Thr Gly Gln Val Leu Arg Cys Asp Ala Ile  
100 105 110

Val Asp Leu Ile His Asp Ile Gln Ile Val Ser Thr Thr Arg Glu Leu  
115 120 125

Tyr Leu Glu Asp Ser Pro Leu Glu Leu Lys Ile Gln Ala Leu Asp Ser  
130 135 140

Glu Gly Asn Thr Phe Ser Thr Leu Ala Gly Leu Val Phe Glu Trp Thr  
145 150 155 160

Ile Val Lys Asp Ser Glu Ala Asp Arg Phe Ser Asp Ser His Asn Ala

165	170	175
Leu Arg Ile Leu Thr Phe Leu Glu Ser Thr Tyr Ile Pro Pro Ser Tyr 180	185	190
Ile Ser Glu Met Glu Lys Ala Ala Lys Gln Gly Asp Thr Ile Leu Val 195	200	205
Ser Gly Met Lys Thr Gly Ser Ser Lys Leu Lys Ala Arg Ile Gln Glu 210	215	220
Ala Val Tyr Lys Asn Val Arg Pro Ala Glu Val Arg Leu Leu Ile Leu 225	230	235
Glu Asn Ile Leu Leu Asn Pro Ala Tyr Asp Val Tyr Leu Met Val Gly 245	250	255
Thr Ser Ile His Tyr Lys Val Gln Lys Ile Arg Gln Gly Lys Ile Thr 260	265	270
Glu Leu Ser Met Pro Ser Asp Gln Tyr Glu Leu Gln Leu Gln Asn Ser 275	280	285
Ile Pro Gly Pro Glu Gly Asp Pro Thr Arg Pro Val Ala Val Leu Ala 290	295	300
Gln Asp Thr Ser Met Val Thr Ala Leu Gln Leu Gly Gln Ser Ser Leu 305	310	315
Val Leu Gly His Arg Ser Ile Arg Met Gln Gly Ala Ser Arg Leu Pro 325	330	335
Asn Ser Thr Ile Tyr Val Val Glu Pro Gly Tyr Leu Gly Phe Thr Val 340	345	350
His Pro Gly Asp Arg Trp Val Leu Glu Thr Gly Arg Leu Tyr Glu Ile 355	360	365
Thr Ile Glu Val Phe Asp Lys Phe Ser Asn Lys Val Tyr Val Ser Asp 370	375	380
Asn Ile Arg Ile Glu Thr Val Leu Pro Ala Glu Phe Phe Glu Val Leu 385	390	395
Ser Ser Ser Gln Asn Gly Ser Tyr His Arg Ile Arg Ala Leu Lys Arg 405	410	415
Gly Gln Thr Ala Ile Asp Ala Ala Leu Thr Ser Val Val Asp Gln Asp 420	425	430
Gly Gly Val His Ile Leu Gln Val Pro Val Trp Asn Gln Gln Glu Val 435	440	445
Glu Ile His Ile Pro Ile Thr Leu Tyr Pro Ser Ile Leu Thr Phe Pro 450	455	460
Trp Gln Pro Lys Thr Gly Ala Tyr Gln Tyr Thr Ile Arg Ala His Gly 465	470	475
Gly Ser Gly Asn Phe Ser Trp Ser Ser Ser Ser His Leu Val Ala Thr		



485										490										495																																			
Val	Thr	Val	Lys	Gly	Val	Met	Thr	Thr	Gly	Ser	Asp	Ile	Gly	Phe	Ser					Val	Thr	Thr	Gly	Ser	Asp	Ile	Gly	Phe	Ser							Val	Thr	Thr	Gly	Ser	Asp	Ile	Gly	Phe	Ser										
500										505										510																																			
Val	Ile	Gln	Ala	His	Asp	Val	Gln	Asn	Pro	Leu	His	Phe	Gly	Glu	Met					Val	Gln	Asn	Pro	Leu	His	Phe	Gly	Glu	Met								Val	Gln	Asn	Pro	Leu	His	Phe	Gly	Glu	Met									
515										520										525																																			
Lys	Val	Tyr	Val	Ile	Glu	Pro	His	Ser	Met	Glu	Phe	Ala	Pro	Cys	Gln					Lys	Val	Tyr	Val	Ile	Glu	Pro	His	Ser	Met	Glu	Phe	Ala	Pro	Cys	Gln			Lys	Val	Tyr	Val	Ile	Glu	Pro	His	Ser	Met	Glu	Phe	Ala	Pro	Cys	Gln		
530										535										540																																			
Val	Glu	Ala	Arg	Val	Gly	Gln	Ala	Leu	Glu	Leu	Pro	Leu	Arg	Ile	Ser					Val	Glu	Ala	Arg	Val	Gly	Gln	Ala	Leu	Glu	Leu	Pro	Leu	Arg	Ile	Ser			Val	Glu	Ala	Arg	Val	Gly	Gln	Ala	Leu	Glu	Leu	Pro	Leu	Arg	Ile	Ser		
545										550										555																																			
Gly	Leu	Met	Pro	Gly	Gly	Ala	Ser	Glu	Val	Val	Thr	Leu	Ser	Asp	Cys					Gly	Leu	Met	Pro	Gly	Gly	Ala	Ser	Glu	Val	Val	Thr	Leu	Ser	Asp	Cys			Gly	Leu	Met	Pro	Gly	Gly	Ala	Ser	Glu	Val	Val	Thr	Leu	Ser	Asp	Cys		
565										570										575																																			
Ser	His	Phe	Asp	Leu	Ala	Val	Glu	Val	Glu	Asn	Gln	Gly	Val	Phe	Gln					Ser	His	Phe	Asp	Leu	Ala	Val	Glu	Val	Glu	Asn	Gln	Gly	Val	Phe	Gln			Ser	His	Phe	Asp	Leu	Ala	Val	Glu	Val	Glu	Asn	Gln	Gly	Val	Phe	Gln		
580										585										590																																			
Pro	Leu	Pro	Gly	Arg	Leu	Pro	Pro	Gly	Ser	Glu	His	Cys	Ser	Gly	Val					Pro	Leu	Pro	Gly	Arg	Leu	Pro	Pro	Gly	Ser	Glu	His	Cys	Ser	Gly	Val			Pro	Leu	Pro	Gly	Arg	Leu	Pro	Pro	Gly	Ser	Glu	His	Cys	Ser	Gly	Val		
595										600										605																																			
Arg	Val	Lys	Ala	Glu	Ala	Gln	Gly	Ser	Thr	Thr	Leu	Leu	Val	Ser	Tyr					Arg	Val	Lys	Ala	Glu	Ala	Gln	Gly	Ser	Thr	Thr	Leu	Leu	Val	Ser	Tyr			Arg	Val	Lys	Ala	Glu	Ala	Gln	Gly	Ser	Thr	Thr	Leu	Leu	Val	Ser	Tyr		
610										615										620																																			
Arg	His	Gly	His	Val	His	Leu	Ser	Ala	Lys	Ile	Thr	Ile	Ala	Ala	Tyr					Arg	His	Gly	His	Val	His	Leu	Ser	Ala	Lys	Ile	Thr	Ile	Ala	Ala	Tyr			Arg	His	Gly	His	Val	His	Leu	Ser	Ala	Lys	Ile	Thr	Ile	Ala	Ala	Tyr		
625										630										635																																			
Leu	Pro	Leu	Lys	Ala	Val	Asp	Pro	Ser	Ser	Val	Ala	Leu	Val	Thr	Leu					Leu	Pro	Leu	Lys	Ala	Val	Asp	Pro	Ser	Ser	Val	Ala	Leu	Val	Thr	Leu			Leu	Pro	Leu	Lys	Ala	Val	Asp	Pro	Ser	Ser	Val	Ala	Leu	Val	Thr	Leu		
645										650										655																																			
Gly	Ser	Ser	Lys	Glu	Met	Leu	Phe	Glu	Gly	Gly	Pro	Arg	Pro	Trp	Ile					Gly	Ser	Ser	Lys	Glu	Met	Leu	Phe	Glu	Gly	Gly	Pro	Arg	Pro	Trp	Ile			Gly	Ser	Ser															

805	810	815
Ala Ser Ile Glu Pro Glu Leu Pro Met Gln Leu Val Ser Gln Asp Asp 820 825 830		
Glu Ser Gly Gln Lys Lys Leu His Gly Leu Gln Ala Ile Leu Val His 835 840 845		
Glu Ala Ser Gly Thr Thr Ala Ile Thr Ala Thr Ala Thr Gly Tyr Gln 850 855 860		
Glu Ser His Leu Ser Ser Ala Arg Thr Lys Gln Pro His Asp Pro Leu 865 870 875 880		
Val Pro Leu Ser Ala Ser Ile Glu Leu Ile Leu Val Glu Asp Val Arg 885 890 895		
Val Ser Pro Glu Glu Val Thr Ile Tyr Asn His Pro Gly Ile Gln Ala 900 905 910		
Glu Leu Arg Ile Arg Glu Gly Ser Gly Tyr Phe Phe Leu Asn Thr Ser 915 920 925		
Thr Ala Asp Val Val Lys Val Ala Tyr Gln Glu Ala Arg Gly Val Ala 930 935 940		
Met Val His Pro Leu Leu Pro Gly Ser Ser Thr Ile Met Ile His Asp 945 950 955 960		
Leu Cys Leu Val Phe Pro Ala Pro Ala Lys Ala Val Val Tyr Val Ser 965 970 975		
Asp Ile Gln Glu Leu Tyr Ile Arg Val Val Asp Lys Val Glu Ile Gly 980 985 990		
Lys Thr Val Lys Ala Tyr Val Arg Val Leu Asp Leu His Lys Lys Pro 995 1000 1005		
Phe Leu Ala Lys Tyr Phe Pro Phe Met Asp Leu Lys Leu Arg Ala Ala 1010 1015 1020		
Ser Pro Ile Ile Thr Leu Val Ala Leu Asp Glu Ala Leu Asp Asn Tyr 1025 1030 1035 1040		
Thr Ile Thr Phe Leu Ile Arg Gly Val Ala Ile Gly Gln Thr Ser Leu 1045 1050 1055		
Thr Ala Ser Val Thr Asn Lys Ala Gly Gln Arg Ile Asn Ser Ala Pro 1060 1065 1070		
Gln Gln Ile Glu Val Phe Pro Pro Phe Arg Leu Met Pro Arg Lys Val 1075 1080 1085		
Thr Leu Leu Ile Gly Ala Thr Met Gln Val Thr Ser Glu Gly Gly Pro 1090 1095 1100		
Gln Pro Gln Ser Asn Ile Leu Phe Ser Ile Ser Asn Glu Ser Val Ala 1105 1110 1115 1120		
Leu Val Ser Ala Ala Gly Leu Val Gln Gly Leu Ala Ile Gly Asn Gly		

1125	1130	1135
Thr Val Ser Gly	Leu Val Gln Ala Val	Asp Ala Glu Thr Gly Lys Val
1140	1145	1150
Val Ile Ile Ser	Gln Asp Leu Val	Gln Val Glu Val Leu Leu Leu Arg
1155	1160	1165
Ala Val Arg Ile Arg	Ala Pro Ile Met Arg	Met Arg Thr Gly Thr Gln
1170	1175	1180
Met Pro Ile Tyr Val	Thr Gly Ile Thr Asn His	Gln Asn Pro Phe Ser
1185	1190	1195
Phe Gly Asn Ala Val	Pro Gly Leu Thr Phe	His Trp Ser Val Thr Lys
1205	1210	1215
Arg Asp Val Leu Asp	Leu Arg Gly Arg	His His Glu Ala Ser Ile Arg
1220	1225	1230
Leu Pro Ser Gln Tyr	Asn Phe Ala Met Asn Val	Leu Gly Arg Val Lys
1235	1240	1245
Gly Arg Thr Gly Leu	Arg Val Val Val Lys	Ala Val Asp Pro Thr Ser
1250	1255	1260
Gly Gln Leu Tyr Gly	Leu Ala Arg Glu Leu Ser	Asp Glu Ile Gln Val
1265	1270	1275
Gln Val Phe Glu Lys	Leu Gln Leu Leu Asn	Pro Glu Ile Glu Ala Glu
1285	1290	1295
Gln Ile Leu Met Ser	Pro Asn Ser Tyr Ile	Lys Leu Gln Thr Asn Arg
1300	1305	1310
Asp Gly Ala Ala Ser	Leu Ser Tyr Arg Val	Leu Asp Gly Pro Glu Lys
1315	1320	1325
Val Pro Val Val His	Val Asp Glu Lys Gly	Phe Leu Ala Ser Gly Ser
1330	1335	1340
Met Ile Gly Thr Ser	Thr Ile Gly Val Ile	Ala Gln Glu Pro Phe Gly
1345	1350	1355
Ala Asn Gln Thr Ile	Ile Val Ala Val Lys	Val Ser Pro Val Ser Tyr
1365	1370	1375
Leu Arg Val Ser Met	Ser Pro Val Leu His	Thr Gln Asn Lys Glu Ala
1380	1385	1390
Leu Val Ala Val Pro	Leu Gly Met Thr Val	Thr Phe Thr Val His Phe
1395	1400	1405
His Asp Asn Ser Gly	Asp Val Phe His Ala	His Ser Ser Val Leu Asn
1410	1415	1420
Phe Ala Thr Asn Arg	Asp Asp Phe Val Gln	Ile Gly Lys Gly Pro Thr
1425	1430	1435
Asn Asn Thr Cys Val	Val Arg Thr Val Ser	Val Gly Leu Thr Leu Leu

1445	1450	1455
Arg Val Trp Asp Ala Glu His Pro Gly Leu Ser Asp Phe Met Pro Leu		
1460	1465	1470
Pro Val Leu Gln Ala Ile Ser Pro Glu Leu Ser Gly Ala Met Val Val		
1475	1480	1485
Gly Asp Val Leu Cys Leu Ala Thr Val Leu Thr Ser Leu Glu Gly Leu		
1490	1495	1500
Ser Gly Thr Trp Ser Ser Ser Ala Asn Ser Ile Leu His Ile Asp Pro		
1505	1510	1515
Lys Thr Gly Val Ala Val Ala Arg Ala Val Gly Ser Val Thr Val Tyr		
1525	1530	1535
Tyr Glu Val Ala Gly His Leu Arg Thr Tyr Lys Glu Val Val Val Ser		
1540	1545	1550
Val Pro Gln Arg Ile Met Ala Arg His Leu His Pro Ile Gln Thr Ser		
1555	1560	1565
Phe Gln Glu Ala Thr Ala Ser Lys Val Ile Val Ala Val Gly Asp Arg		
1570	1575	1580
Ser Ser Asn Leu Arg Gly Glu Cys Thr Pro Thr Gln Arg Glu Val Ile		
1585	1590	1595
Gln Ala Leu His Pro Glu Thr Leu Ile Ser Cys Gln Ser Gln Phe Lys		
1605	1610	1615
Pro Ala Val Phe Asp Phe Pro Ser Gln Asp Val Phe Thr Val Glu Pro		
1620	1625	1630
Gln Phe Asp Thr Ala Leu Gly Gln Tyr Phe Cys Ser Ile Thr Met His		
1635	1640	1645
Arg Leu Thr Asp Lys Gln Arg Lys His Leu Ser Met Lys Lys Thr Ala		
1650	1655	1660
Leu Val Val Ser Ala Ser Leu Ser Ser Ser His Phe Ser Thr Glu Gln		
1665	1670	1675
Val Gly Ala Glu Val Pro Phe Ser Pro Gly Leu Phe Ala Asp Gln Ala		
1685	1690	1695
Glu Ile Leu Leu Ser Asn His Tyr Thr Ser Ser Glu Ile Arg Val Phe		
1700	1705	1710
Gly Ala Pro Glu Val Leu Glu Asn Leu Glu Val Lys Ser Gly Ser Pro		
1715	1720	1725
Ala Val Leu Ala Phe Ala Lys Glu Lys Ser Phe Gly Trp Pro Ser Phe		
1730	1735	1740
Ile Thr Tyr Thr Val Gly Val Leu Asp Pro Ala Ala Gly Ser Gln Gly		
1745	1750	1755
Pro Leu Ser Thr Thr Leu Thr Phe Ser Ser Pro Val Thr Asn Gln Ala		

	1765		1770		1775
Ile Ala Ile Pro Val Thr Val Ala Phe Val Val Asp Arg Arg Gly Pro					
	1780		1785		1790
Gly Pro Tyr Gly Ala Ser Leu Phe Gln His Phe Leu Asp Ser Tyr Gln					
	1795		1800		1805
Val Met Phe Phe Thr Leu Phe Ala Leu Leu Ala Gly Thr Ala Val Met					
	1810		1815		1820
Ile Ile Ala Tyr His Thr Val Cys Thr Pro Arg Asp Leu Ala Val Pro					
	1825		1830		1835
Ala Ala Leu Thr Pro Arg Ala Ser Pro Gly His Ser Pro His Tyr Phe					
			1845		1850
Ala Ala Ser Ser Pro Thr Ser Pro Asn Ala Leu Pro Pro Ala Arg Lys					
			1860		1865
Ala Ser Pro Pro Ser Gly Leu Trp Ser Pro Ala Tyr Ala Ser His					
	1875		1880		1885

<210> 907  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 907  
 Pro Leu Cys Leu Ala Leu Glu Leu Gly Trp Val Cys Leu Ser Ser Thr  
 1 5 10 15

<210> 908  
 <211> 302  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (262)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (279)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (294)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

&lt;222&gt; (295)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 908

Met Leu Leu Leu Trp Lys Asn Phe Met Tyr Arg Arg Arg Gln Pro Val  
 1 5 10 15

Gln Leu Leu Val Glu Leu Leu Trp Pro Leu Phe Leu Phe Phe Ile Leu  
 20 25 30

Val Ala Val Arg His Ser His Pro Pro Leu Glu His His Glu Cys His  
 35 40 45

Phe Pro Asn Lys Pro Leu Pro Ser Ala Gly Thr Val Pro Trp Leu Gln  
 50 55 60

Gly Leu Ile Cys Asn Val Asn Asn Thr Cys Phe Pro Gln Leu Thr Pro  
 65 70 75 80

Gly Glu Glu Pro Gly Arg Leu Ser Asn Phe Asn Asp Ser Leu Val Ser  
 85 90 95

Arg Leu Leu Ala Asp Ala Arg Thr Val Leu Gly Gly Ala Ser Ala His  
 100 105 110

Arg Thr Leu Ala Gly Leu Gly Lys Leu Ile Ala Thr Leu Arg Ala Ala  
 115 120 125

Arg Ser Thr Ala Gln Pro Gln Pro Thr Lys Gln Ser Pro Leu Glu Pro  
 130 135 140

Pro Met Leu Asp Val Ala Glu Leu Leu Thr Ser Leu Leu Arg Thr Glu  
 145 150 155 160

Ser Leu Gly Leu Ala Leu Gly Gln Ala Gln Glu Pro Leu His Ser Leu  
 165 170 175

Leu Glu Ala Ala Glu Asp Leu Ala Gln Glu Leu Leu Ala Leu Arg Ser  
 180 185 190

Leu Val Glu Leu Arg Ala Leu Leu Gln Arg Pro Arg Gly Thr Ser Gly  
 195 200 205

Pro Leu Glu Leu Leu Ser Glu Ala Leu Cys Ser Val Arg Gly Pro Ser  
 210 215 220

Ser Thr Val Gly Pro Ser Leu Asn Trp Tyr Glu Ala Ser Asp Leu Met  
 225 230 235 240

Glu Leu Val Gly Gln Glu Pro Glu Ser Ala Cys Arg Gln Gln Leu Ser  
 245 250 255

Pro Leu Leu Gly Ala Xaa Trp Ser Leu Asp Ser Thr Arg Cys Pro Leu  
 260 265 270

Val Trp Asn Ala Glu Ala Xaa Ser Ser Glu Val Leu Leu Thr Asp His  
 275 280 285

Phe Thr Glu Val Met Xaa Xaa Glu Arg Leu Gln Ser Tyr Leu

290

295

300

<210> 909  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 909  
 Leu Pro Trp Leu Pro Phe Phe Phe Ser Cys Leu Val Ser Thr Leu Pro  
           1                  5                  10                  15  
 Ser Met Ser Val Ser Ala Phe Ser Leu Val Val Arg Gly Arg Arg Ala  
                   20                  25                  30  
 Phe Thr Ser Val Arg  
                   35

<210> 910  
 <211> 181  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (80)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (151)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (162)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 910  
 Pro Lys Thr Ser Pro Ser Pro Glu Val Ser Tyr Thr Thr Pro Ala Pro  
           1                  5                  10                  15  
 Lys Asp Val Leu Leu Pro His Lys Pro Tyr Pro Glu Val Ser Gln Ser  
                   20                  25                  30  
 Glu Pro Ala Pro Leu Glu Thr Arg Gly Ile Pro Phe Ile Pro Met Ile  
           35                  40                  45  
 Ser Pro Ser Pro Ser Gln Glu Glu Leu Gln Thr Thr Leu Glu Glu Thr  
           50                  55                  60  
 Asp Gln Ser Thr Gln Glu Pro Phe Thr Thr Lys Ile Pro Arg Thr Xaa  
           65                  70                  75                  80  
 Glu Leu Ala Lys Thr Thr Gln Ala Pro His Arg Phe Tyr Thr Thr Val  
                   85                  90                  95

Arg Pro Arg Thr Ser Asp Lys Pro His Ile Arg Pro Val Leu Asn Arg  
 100 105 110

Thr Thr Thr Arg Pro Thr Arg Pro Lys Pro Ser Gly Met Pro Ser Gly  
 115 120 125

Asn Gly Val Gly Thr Gly Val Lys Gln Ala Pro Arg Pro Ser Gly Ala  
 130 135 140

Asp Arg Asn Val Ser Val Xaa Ser Thr His Pro Thr Lys Lys Pro Gly  
 145 150 155 160

Thr Xaa Arg Pro Pro Leu Pro Pro Ser Arg Arg Gly Arg Glu Phe Pro  
 165 170 175

Gly Arg Arg Ala His  
 180

<210> 911

<211> 161

<212> PRT

<213> Homo sapiens

<400> 911

Met Leu Ser Ser Leu Gly Cys Leu Leu Leu Cys Gly Ser Ile Thr Leu  
 1 5 10 15

Ala Leu Gly Asn Ala Gln Lys Leu Pro Lys Gly Lys Arg Pro Asn Leu  
 20 25 30

Lys Val His Ile Asn Thr Thr Ser Asp Ser Ile Leu Leu Lys Phe Leu  
 35 40 45

Arg Pro Ser Pro Asn Val Lys Leu Glu Gly Leu Leu Leu Gly Tyr Gly  
 50 55 60

Ser Asn Val Ser Pro Asn Gln Tyr Phe Pro Leu Pro Ala Glu Gly Lys  
 65 70 75 80

Phe Thr Glu Ala Ile Val Asp Ala Glu Pro Lys Tyr Leu Ile Val Val  
 85 90 95

Arg Pro Ala Pro Pro Pro Ser Gln Lys Lys Ser Cys Ser Gly Lys Thr  
 100 105 110

Arg Ser Arg Lys Pro Leu Gln Leu Val Val Gly Thr Leu Thr Pro Ser  
 115 120 125

Ser Val Phe Leu Ser Trp Gly Phe Leu Ile Asn Pro His His Asp Trp  
 130 135 140

Thr Leu Pro Ser His Cys Pro Asn Asp Arg Phe Tyr Thr Ile Arg Tyr  
 145 150 155 160

Arg



<210> 912  
 <211> 778  
 <212> PRT  
 <213> Homo sapiens

<400> 912  
 Met Leu Ser Ser Leu Gly Cys Leu Leu Leu Cys Gly Ser Ile Thr Leu  
 1 5 10 15  
 Ala Leu Gly Asn Ala Gln Lys Leu Pro Lys Gly Lys Arg Pro Asn Leu  
 20 25 30  
 Lys Val His Ile Asn Thr Thr Ser Asp Ser Ile Leu Leu Lys Phe Leu  
 35 40 45  
 Arg Pro Ser Pro Asn Val Lys Leu Glu Gly Leu Leu Leu Gly Tyr Gly  
 50 55 60  
 Ser Asn Val Ser Pro Asn Gln Tyr Phe Pro Leu Pro Ala Glu Gly Lys  
 65 70 75 80  
 Phe Thr Glu Ala Ile Val Asp Ala Glu Pro Lys Tyr Leu Ile Val Val  
 85 90 95  
 Arg Pro Ala Pro Pro Pro Ser Gln Lys Lys Ser Cys Ser Gly Lys Thr  
 100 105 110  
 Arg Ser Arg Lys Pro Leu Gln Leu Val Val Gly Thr Leu Thr Pro Ser  
 115 120 125  
 Ser Val Phe Leu Ser Trp Gly Phe Leu Ile Asn Pro His His Asp Trp  
 130 135 140  
 Thr Leu Pro Ser His Cys Pro Asn Asp Arg Phe Tyr Thr Ile Arg Tyr  
 145 150 155 160  
 Arg Glu Lys Asp Lys Glu Lys Lys Trp Ile Phe Gln Ile Cys Pro Ala  
 165 170 175  
 Thr Glu Thr Ile Val Glu Asn Leu Lys Pro Asn Thr Val Tyr Glu Phe  
 180 185 190  
 Gly Val Lys Asp Asn Val Glu Gly Gly Ile Trp Ser Lys Ile Phe Asn  
 195 200 205  
 His Lys Thr Val Val Gly Ser Lys Lys Val Asn Gly Lys Ile Gln Ser  
 210 215 220  
 Thr Tyr Asp Gln Asp His Thr Val Pro Ala Tyr Val Pro Arg Lys Leu  
 225 230 235 240  
 Ile Pro Ile Thr Ile Ile Lys Gln Val Ile Gln Asn Val Thr His Lys  
 245 250 255  
 Asp Ser Ala Lys Ser Pro Glu Lys Ala Pro Leu Gly Gly Val Ile Leu  
 260 265 270  
 Val His Leu Ile Ile Pro Gly Leu Asn Glu Thr Thr Val Lys Leu Pro  
 275 280 285

Ala Ser Leu Met Phe Glu Ile Ser Asp Ala Leu Lys Thr Gln Leu Ala  
 290 295 300  
 Lys Asn Glu Thr Leu Ala Leu Pro Ala Glu Ser Lys Thr Pro Glu Val  
 305 310 315 320  
 Glu Lys Ile Ser Ala Arg Pro Thr Thr Val Thr Pro Glu Thr Val Pro  
 325 330 335  
 Arg Ser Thr Lys Pro Thr Thr Ser Ser Ala Leu Asp Val Ser Glu Thr  
 340 345 350  
 Thr Leu Val Leu Ser Lys Arg Thr Pro Glu Thr Leu Gln Thr Ile Leu  
 355 360 365  
 Ile Pro Gln Phe Glu Leu Pro Leu Ser Thr Leu Ala Pro Lys Ser Leu  
 370 375 380  
 Pro Glu Phe Pro Glu Ala Lys Thr Pro Phe Pro Phe Glu Lys Pro Arg  
 385 390 395 400  
 Gly Thr Leu Ala Ser Ser Glu Lys Pro Trp Ile Val Pro Thr Ala Lys  
 405 410 415  
 Ile Ser Glu Asp Ser Lys Val Leu Gln Pro Gln Thr Ala Thr Tyr Asp  
 420 425 430  
 Val Phe Ser Ser Pro Thr Thr Ser Asp Glu Pro Glu Ile Ser Asp Ser  
 435 440 445  
 Tyr Thr Ala Thr Ser Asp Arg Ile Leu Asp Ser Ile Pro Pro Lys Thr  
 450 455 460  
 Ser Arg Thr Leu Glu Gln Pro Arg Ala Thr Leu Ala Pro Ser Glu Thr  
 465 470 475 480  
 Pro Phe Val Pro Gln Lys Leu Glu Ile Phe Thr Ser Pro Glu Met Gln  
 485 490 495  
 Pro Thr Thr Pro Ala Pro Gln Gln Thr Thr Ser Ile Pro Ser Thr Pro  
 500 505 510  
 Lys Arg Arg Pro Arg Pro Lys Pro Pro Arg Thr Lys Pro Glu Arg Thr  
 515 520 525  
 Thr Ser Ala Gly Thr Ile Thr Pro Lys Ile Ser Lys Ser Pro Glu Pro  
 530 535 540  
 Thr Trp Thr Thr Pro Ala Pro Gly Lys Thr Gln Phe Ile Ser Leu Lys  
 545 550 555 560  
 Pro Lys Ile Pro Leu Ser Pro Glu Val Thr His Thr Lys Pro Ala Pro  
 565 570 575  
 Lys Gln Thr Pro Arg Ala Pro Pro Lys Pro Lys Thr Ser Pro Arg Pro  
 580 585 590  
 Arg Ile Pro Gln Thr Gln Pro Val Pro Lys Val Pro Gln Arg Val Thr  
 595 600 605

Ala Lys Pro Lys Thr Ser Pro Ser Pro Glu Val Ser Tyr Thr Thr Pro  
610 615 620

Ala Pro Lys Asp Val Leu Leu Pro His Lys Pro Tyr Pro Glu Val Ser  
625 630 635 640

Gln Ser Glu Pro Ala Pro Leu Glu Thr Arg Gly Ile Pro Phe Ile Pro  
645 650 655

Met Ile Ser Pro Ser Pro Ser Gln Glu Glu Leu Gln Thr Thr Leu Glu  
660 665 670

Glu Thr Asp Gln Ser Thr Gln Glu Pro Phe Thr Thr Lys Ile Pro Arg  
675 680 685

Thr Thr Glu Leu Ala Lys Thr Thr Gln Ala Pro His Arg Phe Tyr Thr  
690 695 700

Thr Val Arg Pro Arg Thr Ser Asp Lys Pro His Ile Arg Pro Val Leu  
705 710 715 720

Asn Arg Thr Thr Thr Arg Pro Thr Arg Pro Lys Pro Ser Gly Met Pro  
725 730 735

Ser Gly Asn Gly Val Gly Thr Gly Val Lys Gln Ala Pro Arg Pro Ser  
740 745 750

Gly Ala Asp Arg Asn Val Ser Val Asp Ser Thr His Pro Thr Lys Lys  
755 760 765

Pro Gly Thr Arg Arg Pro Pro Leu Pro Pro  
770 775

&lt;210&gt; 913

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 913

Ser Phe Arg Thr Ala Pro Arg Gly Pro His Val Lys Glu Ser His Ala  
1 5 10 15

Ser Gly Leu Leu Ser Asn Gln Ile Asn Leu Gln Ser Phe Asp Phe Lys  
20 25 30

Arg Met Leu Leu Cys Arg Leu Asn Ile Thr Gly Leu Cys Trp Gly Pro  
35 40 45

Lys Arg Thr Arg Cys Ala Leu Gly Gly Gln Thr Gly Leu Gln His His  
50 55 60

Pro Ser Asn Glu Lys Xaa Arg His Ser Gly Lys Glu Asp Leu Phe Leu

65                      70                      75                      80  
 Ser Ile Cys Leu Gly Trp Gly Thr Thr Val Asn Met Ala Cys Asn Asn  
                                  85                      90                      95  
 Gln Arg Gly Arg Gly Tyr Gln Thr Gln Arg Asn Ser Ser Pro Val Tyr  
                                  100                      105                      110  
 Gln Glu Glu Leu Leu Phe Phe Cys Thr Ser Leu Phe Ser Arg Leu Phe  
                                  115                      120                      125  
 Ser Leu Lys Gly  
                                  130

<210> 914  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 914  
 Met Asn His Leu Ser Ile Ser Ile Ala Leu Phe Leu Leu Cys Cys Val  
   1                      5                      10                      15  
 His Leu Ser Leu Gly Leu Ser Val Phe Pro Phe Gln Glu Asp Arg Ser  
                                  20                      25                      30  
 Val

<210> 915  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 915  
 Met Asn Tyr Leu His Cys Asn Val Leu Leu Thr Leu Phe Cys Leu Leu  
   1                      5                      10                      15  
 Phe Leu Leu His Ser Cys Ile Lys Ile Ile Lys His His Ser Gln Ala  
                                  20                      25                      30  
 Lys Arg Thr Arg Phe Pro Ser His Ile Ser His Lys Gly Glu Ala Asn  
                                  35                      40                      45  
 Thr His Gln Gly Gly Asn Tyr Thr Glu Leu Gly Trp Gly Leu Asp Ile  
                                  50                      55                      60  
 Tyr Phe Thr Ser Glu Leu Phe Ile Ser Ala Val Asn Leu Gly Glu Gly  
                                  65                      70                      75                      80  
 Leu Gly Glu Val Leu Ser Gly Glu Gln Arg Gly Pro Gly Gly Lys Leu  
                                  85                      90                      95  
 Met Lys Thr Ser Asp Asp  
                                  100

&lt;210&gt; 916

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 916

Ile Lys Thr Val Phe Leu Gly Gln Arg Tyr Thr Asp Pro Asn Phe Ile  
 1 5 10 15

Ala Val Val Phe Ile His Leu Pro Ile Asp Ile Leu Lys Ala Pro Ala  
 20 25 30

Arg Pro Gly Thr Val Ala His Ala Cys Asn Leu Ser Thr Leu Val Gly  
 35 40 45

Arg Gly Gly Arg Ile Thr Arg Ser Arg Asp Gln Asp His Pro Gly Gln  
 50 55 60

Arg Gly Glu Thr Leu Ser Leu Leu Lys Ile Gln Lys Leu Ala Gly His  
 65 70 75 80

Gly Gly Ala Arg Leu  
 85

&lt;210&gt; 917

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 917

Met Ile Ser Cys Leu Cys Asn Phe Ile Ala His Cys Val Ala Leu Val  
 1 5 10 15

Met Arg Thr Cys Met Leu Val Val Ser Ser Asn Phe Ala Pro Ser Phe  
 20 25 30

Leu

&lt;210&gt; 918

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 918

Met Ile Ser Cys Leu Cys Asn Phe Ile Ala His Cys Val Ala Leu Val  
 1 5 10 15

Met Arg Thr Cys Met Leu Val Val Ser Ser Asn Phe Ala Pro Ser Phe  
 20 25 30

Leu

<400> 921  
Met Arg Lys Trp Gly Leu Met Lys Leu Ile Ala Ser Met Met Gln Pro  
1 5 10 15

Val Leu Leu Glu Leu Leu Ser Val Trp Arg Lys Glu Gly Arg Asp Ser  
20 25 30

Arg Asn Ile His Asp Ser His Ser Met Tyr Val Leu Arg Lys Arg Leu  
35 40 45

Ser Gly Ser Trp Leu Gln Ala Gly Leu Tyr Ser Thr Val Ile Ser Ala  
50 55 60

Ala Leu Ile Leu Glu Ser Pro Arg Ala Cys Leu Pro Ser Lys Gly  
65 70 75

<210> 922

<211> 245

<212> PRT

<213> Homo sapiens

<400> 922

Met Ala Asp Val Ser Ala Lys Asp Ser Ser Gln Glu Thr Leu Val Asn  
1 5 10 15

Leu Ala Gly Leu Leu Val Ser Leu Leu Met Leu Pro Leu Val Ser Gly  
20 25 30

Cys Pro Gly Phe Ser Leu Gly Cys Phe Phe Phe Leu Thr Ala Leu His  
35 40 45

Ile Tyr Ala Asn Tyr Arg Ala Val Arg Ala Leu Val Met Glu Thr Leu  
50 55 60

Asn Glu Gly Arg Leu Arg Leu Val Leu Lys His Tyr Leu Gln Arg Gly  
65 70 75 80

Glu Val Leu Asp Pro Thr Ala Ala Asn Arg Met Glu Pro Leu Trp Thr  
85 90 95

Gly Phe Trp Pro Ala Pro Ser Leu Ser Leu Gly Val Pro Leu His Arg  
100 105 110

Leu Val Ser Ser Val Phe Glu Leu Gln Gln Leu Val Glu Gly His Gln  
115 120 125

Glu Ser Tyr Leu Leu Cys Trp Asp Gln Ser Gln Asn Gln Val Gln Val  
130 135 140

Val Leu Asn Gln Lys Ala Gly Pro Lys Thr Ile Leu Arg Ala Ala Thr  
145 150 155 160

His Gly Leu Met Leu Gly Ala Leu Gln Gly Asp Gly Pro Leu Pro Ala  
165 170 175

Glu Leu Glu Glu Leu Arg Asn Arg Val Arg Ala Gly Pro Lys Lys Glu  
180 185 190

Ser Trp Val Val Val Lys Glu Thr His Glu Val Leu Asp Met Leu Phe  
195 200 205

Pro Lys Phe Leu Lys Gly Leu Gln Asp Ala Gly Trp Lys Thr Glu Lys

210

215

220

His Gln Leu Glu Val Asp Glu Trp Arg Ala Thr Trp Leu Leu Ser Pro  
 225 230 235 240

Glu Lys Lys Val Leu  
 245

&lt;210&gt; 923

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens.

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 923

Leu Pro Val Gln Asn Gly Cys Pro Glu Ser Ala Met Glu Met Asn Gly  
 1 5 10 15

Arg Ala Pro Cys Trp Glu Val Gly Leu Glu Glu Leu Ser Ser Arg Lys  
 20 25 30

Leu Thr Ala Gly Pro Gln Phe Pro Ser Glu Pro Gln Ala Pro Ala Pro  
 35 40 45

Ser Leu Phe Arg Gln Cys Leu Leu Trp Phe Cys Gly Met Xaa Xaa Gly  
 50 55 60

Gly Val Gly Ser Pro Pro Pro Leu Thr Gln Glu  
 65 70 75

&lt;210&gt; 924

&lt;211&gt; 186

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 924

Met Leu Pro Leu Val Ser Gly Cys Pro Gly Phe Ser Leu Gly Cys Phe  
 1 5 10 15

Phe Phe Leu Thr Ala Leu His Ile Tyr Ala Asn Tyr Arg Ala Val Arg  
 20 25 30

Ala Leu Val Met Glu Thr Leu Asn Glu Gly Arg Leu Arg Leu Val Leu  
 35 40 45

Lys His Tyr Leu Gln Arg Gly Glu Val Leu Asp Pro Thr Ala Ala Asn  
 50 55 60



Arg Met Glu Pro Leu Trp Thr Gly Phe Trp Pro Ala Pro Ser Leu Ser  
 65 70 75 80  
 Leu Gly Val Pro Leu His Arg Leu Val Ser Ser Val Phe Glu Leu Gln  
 85 90 95  
 Gln Leu Val Glu Gly His Gln Glu Ser Tyr Leu Leu Cys Trp Asp Gln  
 100 105 110  
 Ser Gln Asn Gln Val Gln Val Val Leu Asn Gln Lys Ala Gly Pro Lys  
 115 120 125  
 Thr Ile Leu Arg Ala Ala Thr His Gly Leu Met Leu Gly Ala Leu Gln  
 130 135 140  
 Gly Asp Gly Pro Leu Pro Ala Glu Leu Glu Glu Leu Arg Asn Arg Val  
 145 150 155 160  
 Arg Ala Gly Pro Arg Lys Arg Ala Gly Ser Ser Arg Arg His Thr  
 165 170 175  
 Lys Cys Trp Thr Cys Cys Ser Gln Ser Ser  
 180 185

<210> 925  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 925  
 Met Arg Arg Gln Thr Phe Met Ser Ile Leu Val Phe Gln Cys Ser Pro  
 1 5 10 15  
 Ile Ser Phe Gly Leu Cys Ile Asn Lys Glu Arg Thr Val Val Ser Ser  
 20 25 30  
 Val Ile Thr Asp Asn Leu Cys Leu  
 35 40

<210> 926  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 926  
 Met Arg Arg Gln Thr Phe Met Ser Ile Leu Val Phe Gln Cys Ser Pro  
 1 5 10 15  
 Ile Ser Phe Gly Leu Cys Ile Asn Lys Glu Arg Thr Val Val Ser Ser  
 20 25 30  
 Val Ile Thr Asp Asn Leu Cys Leu  
 35 40

&lt;210&gt; 927

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 927

Ser	Leu	Leu	Leu	Ser	Cys	Cys	Pro	Leu	Gly	Asn	Arg	Ala	Tyr	Gly	Ala
1				5					10					15	

Thr	Gly	Ala	Glu	Val	Ala	Ser	Arg	Ala	Ser	Leu	Glu	Gly	Ser	Glu	His
			20					25					30		

Ser	Met	Gln	Arg	Ser	His	Arg	Glu	Ala	Gly	Asn	Gln	Gly	Pro	Gly	Arg
		35					40					45			

Ala	Ala	Ser	Cys	Ala	Ser	Pro	Ala	Phe	Val	Met	Xaa	Phe	Ser	Phe	Phe
		50				55					60				

Thr	His	Cys	Gln	Ile	Cys	Phe	Leu	Pro
65					70			

&lt;210&gt; 928

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 928

Glu	Ala	Pro	Trp	Gln	Phe	Ser
1				5		

&lt;210&gt; 929

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 929

Met	Phe	Leu	Lys	Ala	Gln	Trp	Leu	Tyr	Ser	Leu	Leu	Leu	Asn	Cys	Leu
1				5					10					15	

Leu	Pro	Glu	Gly	Thr	Ser	Ser
		20				

&lt;210&gt; 930

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 930

Met Phe Leu Lys Ala Gln Trp Leu Tyr Ser Leu Leu Leu Asn Cys Leu  
 1 5 10 15  
 Leu Pro Glu Gly Thr Ser Ser  
 20

<210> 931  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 931  
 Arg Thr Leu Arg Met Ser Pro Ser Ala Phe Cys Tyr Ser Leu Thr Leu  
 1 5 10 15  
 Leu Ala Cys Trp Arg Ala Ala Trp Ile Pro Thr Cys Val Pro Arg Ala  
 20 25 30  
 Ala Gly Glu Met Asp Ser Pro Gly Leu Ala Asp Gly His Trp Cys Ser  
 35 40 45  
 Gly Ala Ala Arg Arg Ser Pro His Tyr Val Ala Arg Ser Leu Val Leu  
 50 55 60

<210> 932  
 <211> 822  
 <212> PRT  
 <213> Homo sapiens

<400> 932  
 Met Ala Ala Val Val Val Ala Glu Gly Asp Ser Asp Ser Arg Pro  
 1 5 10 15  
 Gly Gln Glu Leu Leu Val Ala Trp Asn Thr Val Ser Thr Gly Leu Val  
 20 25 30  
 Pro Pro Ala Leu Gly Leu Val Ser Ser Arg Thr Ser Gly Ala Val  
 35 40 45  
 Pro Pro Lys Glu Glu Glu Leu Arg Ala Ala Val Glu Val Leu Arg Gly  
 50 55 60  
 His Gly Leu His Ser Val Leu Glu Glu Trp Phe Val Glu Val Leu Gln  
 65 70 75 80  
 Asn Asp Leu Gln Ala Asn Ile Ser Pro Glu Phe Trp Asn Ala Ile Ser  
 85 90 95  
 Gln Cys Glu Asn Ser Ala Asp Glu Pro Gln Cys Leu Leu Leu Leu Leu  
 100 105 110  
 Asp Ala Phe Gly Leu Leu Glu Ser Arg Leu Asp Pro Tyr Leu Arg Ser  
 115 120 125

Leu Glu Leu Leu Glu Lys Trp Thr Arg Leu Gly Leu Leu Met Gly Thr  
 130 135 140  
 Gly Ala Gln Gly Leu Arg Glu Glu Val His Thr Met Leu Arg Gly Val  
 145 150 155 160  
 Leu Phe Phe Ser Thr Pro Arg Thr Phe Gln Glu Met Ile Gln Arg Leu  
 165 170 175  
 Tyr Gly Cys Phe Leu Arg Val Tyr Met Gln Ser Lys Arg Lys Gly Glu  
 180 185 190  
 Gly Gly Thr Asp Pro Glu Leu Glu Gly Glu Leu Asp Ser Arg Tyr Ala  
 195 200 205  
 Arg Arg Arg Tyr Tyr Arg Leu Leu Gln Ser Pro Leu Cys Ala Gly Cys  
 210 215 220  
 Ser Ser Asp Lys Gln Gln Cys Trp Cys Arg Gln Ala Leu Glu Gln Phe  
 225 230 235 240  
 His Gln Leu Ser Gln Val Leu His Arg Leu Ser Leu Leu Glu Arg Val  
 245 250 255  
 Ser Ala Glu Ala Val Thr Thr Thr Leu His Gln Val Thr Arg Glu Arg  
 260 265 270  
 Met Glu Asp Arg Cys Arg Gly Glu Tyr Glu Arg Ser Phe Leu Arg Glu  
 275 280 285  
 Phe His Lys Trp Ile Glu Arg Val Val Gly Trp Leu Gly Lys Val Phe  
 290 295 300  
 Leu Gln Asp Gly Pro Ala Arg Pro Ala Ser Pro Glu Ala Gly Asn Thr  
 305 310 315 320  
 Leu Arg Arg Trp Arg Cys His Val Gln Arg Phe Phe Tyr Arg Ile Tyr  
 325 330 335  
 Ala Ser Leu Arg Ile Glu Glu Leu Phe Ser Ile Val Arg Asp Phe Pro  
 340 345 350  
 Asp Ser Arg Pro Ala Ile Glu Asp Leu Lys Tyr Cys Leu Glu Arg Thr  
 355 360 365  
 Asp Gln Arg Gln Gln Leu Leu Val Ser Leu Lys Ala Ala Leu Glu Thr  
 370 375 380  
 Arg Leu Leu His Pro Gly Val Asn Thr Cys Asp Ile Ile Thr Leu Tyr  
 385 390 395 400  
 Ile Ser Ala Ile Lys Ala Leu Arg Val Leu Asp Pro Ser Met Val Ile  
 405 410 415  
 Leu Glu Val Ala Cys Glu Pro Ile Arg Arg Tyr Leu Arg Thr Arg Glu  
 420 425 430  
 Asp Thr Val Arg Gln Ile Val Ala Gly Leu Thr Gly Asp Ser Asp Gly  
 435 440 445

Thr Gly Asp Leu Ala Val Glu Leu Ser Lys Thr Asp Pro Ala Ser Leu  
 450 455 460  
 Glu Thr Gly Gln Asp Ser Glu Asp Asp Ser Gly Glu Pro Glu Asp Trp  
 465 470 475 480  
 Val Pro Asp Pro Val Asp Ala Asp Pro Gly Lys Ser Ser Ser Lys Arg  
 485 490 495  
 Arg Ser Ser Asp Ile Ile Ser Leu Leu Val Ser Ile Tyr Gly Ser Lys  
 500 505 510  
 Asp Leu Phe Ile Asn Glu Tyr Arg Ser Leu Leu Ala Asp Arg Leu Leu  
 515 520 525  
 His Gln Phe Ser Phe Ser Pro Glu Arg Glu Ile Arg Asn Val Glu Leu  
 530 535 540  
 Leu Lys Leu Arg Phe Gly Glu Ala Pro Met His Phe Cys Glu Val Met  
 545 550 555 560  
 Leu Lys Asp Met Ala Asp Ser Arg Arg Ile Asn Ala Asn Ile Arg Glu  
 565 570 575  
 Glu Asp Glu Lys Arg Pro Ala Glu Glu Gln Pro Pro Phe Gly Val Tyr  
 580 585 590  
 Ala Val Ile Leu Ser Ser Glu Phe Trp Pro Pro Phe Lys Asp Glu Lys  
 595 600 605  
 Leu Glu Val Pro Glu Asp Ile Arg Ala Ala Leu Glu Ala Tyr Cys Lys  
 610 615 620  
 Lys Tyr Glu Gln Leu Lys Ala Met Arg Thr Leu Ser Trp Lys His Thr  
 625 630 635 640  
 Leu Gly Leu Val Thr Met Asp Val Glu Leu Ala Asp Arg Thr Leu Ser  
 645 650 655  
 Val Ala Val Thr Pro Val Gln Ala Val Ile Leu Leu Tyr Phe Gln Asp  
 660 665 670  
 Gln Ala Ser Trp Thr Leu Glu Glu Leu Ser Lys Ala Val Lys Met Pro  
 675 680 685  
 Val Ala Leu Leu Arg Arg Arg Met Ser Val Trp Leu Gln Gln Gly Val  
 690 695 700  
 Leu Arg Glu Glu Pro Pro Gly Thr Phe Ser Val Ile Glu Glu Glu Arg  
 705 710 715 720  
 Pro Gln Asp Arg Asp Asn Met Val Leu Ile Asp Ser Asp Asp Glu Ser  
 725 730 735  
 Asp Ser Gly Met Ala Ser Gln Ala Asp Gln Lys Glu Glu Glu Leu Leu  
 740 745 750  
 Leu Phe Trp Thr Tyr Ile Gln Ala Met Leu Thr Asn Leu Glu Ser Leu  
 755 760 765

Ser Leu Asp Arg Ile Tyr Asn Met Leu Arg Met Phe Val Val Thr Gly  
 770 775 780

Pro Ala Leu Ala Glu Ile Asp Leu Gln Glu Leu Gln Gly Tyr Leu Gln  
 785 790 795 800

Lys Lys Val Arg Asp Gln Gln Leu Val Tyr Ser Ala Gly Val Tyr Arg  
 805 810 815

Leu Pro Lys Asn Cys Ser  
 820

<210> 933  
 <211> 157  
 <212> PRT  
 <213> Homo sapiens

<400> 933  
 Met Ser Pro Trp Leu Leu Leu Leu Val Val Gly Ser Trp Leu Leu  
 1 5 10 15

Ala Arg Ile Leu Ala Trp Thr Tyr Ala Phe Tyr Asn Asn Cys Arg Arg  
 20 25 30

Leu Gln Cys Phe Pro Gln Pro Pro Lys Arg Asn Trp Phe Trp Gly His  
 35 40 45

Leu Gly Leu Ile Thr Pro Thr Glu Glu Gly Leu Lys Asp Ser Thr Gln  
 50 55 60

Met Ser Ala Thr Tyr Ser Gln Gly Phe Thr Val Trp Leu Gly Pro Ile  
 65 70 75 80

Ile Pro Phe Ile Val Leu Cys His Pro Asp Thr Ile Arg Ser Ile Thr  
 85 90 95

Asn Ala Ser Ala Ala Ile Ala Pro Lys Asp Asn Leu Phe Ile Arg Phe  
 100 105 110

Leu Lys Pro Trp Leu Gly Glu Tyr Leu Gln Val Lys Gly Val Gly Asp  
 115 120 125

Asn Leu Ala Gly Arg Val Gly Glu Val Leu Leu Leu Pro Ile Val Leu  
 130 135 140

Gly Cys Pro Thr Arg Arg Arg Asp Thr Ala Glu Trp Arg  
 145 150 155

<210> 934  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 934  
 Leu Val Ile Gly Gly Trp Gly Gln Arg Arg Leu Tyr Arg

1

5

10

<210> 935  
 <211> 126  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (119)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 935  
 Met Ser Pro Trp Leu Leu Leu Leu Leu Val Val Gly Ser Trp Leu Leu  
           1                  5                  10                  15  
 Ala Arg Ile Leu Ala Trp Thr Tyr Ala Phe Tyr Asn Asn Cys Arg Arg  
                   20                  25                  30  
 Leu Gln Cys Phe Pro Gln Pro Pro Lys Arg Asn Trp Phe Trp Gly His  
                   35                  40                  45  
 Leu Gly Leu Ile Thr Pro Thr Glu Glu Gly Leu Lys Asp Ser Thr Gln  
           50                  55                  60  
 Met Ser Ala Thr Tyr Ser Gln Gly Phe Thr Val Trp Leu Gly Pro Ile  
           65                  70                  75                  80  
 Ile Pro Phe Ile Val Leu Cys His Pro Asp Thr Ile Arg Ser Ile Thr  
                   85                  90                  95  
 Asn Ala Ser Ala Ala Ile Ala Pro Lys Asp Asn Leu Phe Ile Arg Phe  
                   100                  105                  110  
 Leu Lys Pro Trp Leu Gly Xaa Arg Asp Thr Ala Glu Trp Arg  
           115                  120                  125

<210> 936  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 936

Gln Asn Thr Ile Glu Cys Gly Ser Ser Thr Ala Gly Val Cys Cys Ser  
 1 5 10 15

Gln Leu Trp Arg Leu Xaa Val Gln Xaa Xaa Gly Thr Gly Arg Leu His  
 20 25 30

Val Trp Trp Gly Pro Ala Ser Trp Ser Ile Ala Ser Thr Phe Ser Leu  
 35 40 45

His Pro Tyr Val Val Glu Glu Ala Gly Glu Leu Ser Gly Val Ser Phe  
 50 55 60

Val Thr Pro Phe Leu Arg Leu Val His Ser His Asp Leu Ile Thr Ser  
 65 70 75 80

Gln Arg Pro Cys Leu Leu Thr Pro Leu Pro  
 85 90

&lt;210&gt; 937

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 937

Met Lys Leu Thr Phe Ser Phe Pro Trp Phe Thr Leu Thr Ala Leu Gln  
 1 5 10 15

Leu Trp Ser Ala Thr Glu Cys Gln Ala Val Val Asp Thr Met Ile Ala  
 20 25 30

Val Trp Ser Glu Gly Lys Gly Thr Gly Val Ser Trp Glu Pro Trp Leu  
 35 40 45

Leu Gly Lys Leu Gln Ser Ser Ser Phe Leu  
 50 55

&lt;210&gt; 938

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 938

Leu Cys Val Ser His Pro Gly Ile Thr Cys Thr Pro Leu Trp Leu Cys  
 1 5 10 15

Val Ile Ser Gln Asn Met Glu Leu Ile Leu Met Phe Arg Arg Pro Lys  
 20 25 30

Leu Thr

&lt;210&gt; 939



<211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 939  
 Thr Leu Thr Ala Lys Thr  
 1 5

<210> 940  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 940  
 Met Lys Leu Thr Phe Ser Phe Pro Trp Phe Thr Leu Thr Ala Leu Gln  
 1 5 10 15

Leu Trp Ser Ala Thr Glu Cys Gln Ala Val Val Asp Thr Met Ile Ala  
 20 25 30

Val Trp Ser Glu Gly Lys Gly Thr Gly Val Ser Trp Glu Pro Trp Leu  
 35 40 45

Leu Gly Lys Leu Gln Ser Ser Ser Phe Leu  
 50 55

<210> 941  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 941  
 Leu Lys Xaa Ile Thr Ile Cys Cys Leu Gln Lys Thr His Leu His Ser  
 1 5 10 15

Lys Gly Thr Glu Arg Met Lys Val Lys Gly Trp Glu Arg Val Tyr Trp  
 20 25 30

Gly Asn Ile Thr Glu Gly Asn Met Met Asn Leu Tyr  
 35 40

<210> 942  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 942  
 Leu Gly Ala Phe Ser Trp Ser Pro Lys  
 1 5

<210> 943  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<400> 943  
 Met Ala Arg Ser Leu Leu Ile Ile Leu Gly Ala Asp Phe Thr Phe Pro  
           1                  5                  10                  15  
 Thr Ser Phe Asn Cys Phe Gln Lys Met Asn Leu Ala Lys Lys Ser Arg  
                   20                  25                  30  
 Gly Ser Phe Thr His Leu Leu Thr His Ser Trp Cys Leu Ser Leu Phe  
                   35                  40                  45  
 Leu Lys Glu Ala Asp Gln Gly Leu Arg Glu Asn Asn Phe Asp Phe Ser  
           50                  55                  60  
 His Val Cys Pro Ser Lys Pro Pro Leu Trp Thr Asp Ser Pro Ser Val  
           65                  70                  75                  80  
 Pro Gly Arg Asn Trp Asp Asn Pro Arg Thr Phe Leu Val Pro Ser Arg  
                   85                  90                  95

<210> 944  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<400> 944  
 Met Ala Arg Ser Leu Leu Ile Ile Leu Gly Ala Asp Phe Thr Phe Pro  
           1                  5                  10                  15  
 Thr Ser Phe Asn Cys Phe Gln Lys Met Asn Leu Ala Lys Lys Ser Arg  
                   20                  25                  30  
 Gly Ser Phe Thr His Leu Leu Thr His Ser Trp Cys Leu Ser Leu Phe  
                   35                  40                  45  
 Leu Lys Glu Ala Asp Gln Gly Leu Arg Glu Asn Asn Phe Asp Phe Ser  
           50                  55                  60  
 His Val Cys Pro Ser Lys Pro Pro Leu Trp Thr Asp Ser Pro Ser Val  
           65                  70                  75                  80  
 Pro Gly Arg Asn Trp Asp Asn Pro Arg Thr Phe Leu Val Pro Ser Arg  
                   85                  90                  95

<210> 945  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 945  
 Met Leu Xaa Phe Xaa Phe Phe Leu Leu Phe Phe Phe Phe Trp Trp  
           1                  5                  10                  15  
 Cys Cys Leu Ala Phe Phe Ser Phe Pro Phe  
                   20                  25

<210> 946  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 946  
 Met Leu Leu Phe Phe Phe Phe Leu Leu Phe Phe Phe Phe Phe Trp  
           1                  5                  10                  15  
 Leu Val Leu Phe Gly Ile Phe Phe Phe Ser Phe Leu Lys Lys Met Phe  
                   20                  25                  30  
 Ser Gly Asn Met Asn Lys His Thr Ala Asn Tyr Ser Gly Ala Gly Lys  
           35                  40                  45  
 Ala Gln Glu Leu Ala Thr Ser Gln Leu His Ser Trp Asp Gly Lys Pro  
           50                  55                  60  
 Cys Cys Glu Leu Leu Arg Leu Phe Thr Tyr Phe Thr Tyr  
           65                  70                  75

<210> 947  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 947  
 Met Leu Leu Phe Phe Phe Phe Leu Leu Phe Phe Phe Phe Phe Trp  
           1                  5                  10                  15  
 Leu Val Leu Phe Gly Ile Phe Phe Phe Ser Phe Leu Lys Lys Met Phe  
                   20                  25                  30

Ser Gly Asn Met Asn Lys His Thr Ala Asn Tyr Ser Gly Ala Gly Lys  
           35                          40                          45

Ala Gln Glu Leu Ala Thr Ser Gln Leu His Ser Trp Asp Gly Lys Pro  
           50                          55                          60

Cys Cys Glu Leu Leu Arg Leu Phe Thr Tyr Phe Thr Tyr  
       65                          70                          75

&lt;210&gt; 948

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 948

Met Trp Arg Trp Leu Ser Ser Phe Trp Leu Leu  
       1                          5                          10

&lt;210&gt; 949

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 949

Met Trp Arg Trp Leu Ser Ser Phe Trp Leu Leu  
       1                          5                          10

&lt;210&gt; 950

&lt;211&gt; 378

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 950

Ala Arg Glu Lys Pro Tyr Leu Val Glu Glu Ala Val Ser Tyr Asn Glu  
       1                          5                          10                          15

Leu Asp Tyr Val Ser Val Gly Leu Asp Gln Gln Thr Val Lys Leu Val  
           20                          25                          30

Cys Thr Asn Arg Arg Lys Gln Phe Leu Leu Asp Thr Ala Asp Val Ala  
           35                          40                          45

Leu Ala Glu Phe Phe Leu Ala Ser Leu Lys Ser Ala Met Ile Lys Gly  
       50                          55                          60

Cys Arg Glu Pro Pro Tyr Pro Ser Ile Leu Thr Asp Ala Thr Met Glu  
       65                          70                          75                          80

Lys Leu Ala Leu Ala Lys Phe Val Ala Gln Glu Ser Lys Cys Glu Ala  
           85                          90                          95

Ser Ala Val Thr Val Arg Phe Tyr Gly Leu Val His Trp Glu Asp Pro  
           100                          105                          110

Thr Asp Glu Ser Leu Gly Pro Thr Pro Cys His Cys Ser Pro Pro Glu  
 115 120 125  
 Gly Thr Ile Thr Lys Glu Gly Met Leu His Tyr Lys Ala Gly Thr Ser  
 130 135 140  
 Tyr Leu Gly Lys Glu His Trp Lys Thr Cys Phe Val Val Leu Ser Asn  
 145 150 155 160  
 Gly Ile Leu Tyr Gln Tyr Pro Asp Arg Thr Asp Val Ile Pro Leu Leu  
 165 170 175  
 Ser Val Asn Met Gly Gly Glu Gln Cys Gly Gly Cys Arg Arg Ala Asn  
 180 185 190  
 Thr Thr Asp Arg Pro His Ala Phe Gln Val Ile Leu Ser Asp Arg Pro  
 195 200 205  
 Cys Leu Glu Leu Ser Ala Glu Ser Glu Ala Glu Met Ala Glu Trp Met  
 210 215 220  
 Gln His Leu Cys Gln Ala Val Ser Lys Gly Val Ile Pro Gln Gly Val  
 225 230 235 240  
 Ala Pro Ser Pro Cys Ile Pro Cys Cys Leu Val Leu Thr Asp Asp Arg  
 245 250 255  
 Leu Phe Thr Cys His Glu Asp Cys Gln Thr Ser Phe Phe Arg Ser Leu  
 260 265 270  
 Gly Thr Ala Lys Leu Gly Asp Ile Ser Ala Val Ser Thr Glu Pro Gly  
 275 280 285  
 Lys Glu Tyr Cys Val Leu Glu Phe Ser Gln Asp Ser Gln Gln Leu Leu  
 290 295 300  
 Pro Pro Trp Val Ile Tyr Leu Ser Cys Thr Ser Glu Leu Asp Arg Leu  
 305 310 315 320  
 Leu Ser Ala Leu Asn Ser Gly Trp Lys Thr Ile Tyr Gln Val Asp Leu  
 325 330 335  
 Pro His Thr Ala Ile Gln Glu Ala Ser Asn Lys Lys Lys Phe Glu Asp  
 340 345 350  
 Ala Leu Ser Leu Ile His Ser Ala Trp Gln Arg Ser Asp Ser Leu Cys  
 355 360 365  
 Arg Gly Arg Ala Ser Arg Asp Pro Trp Cys  
 370 375

&lt;210&gt; 951

&lt;211&gt; 134

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 951

Ser Pro Ala Arg His Pro Thr Thr Ser Ser Arg His Thr Trp Trp Glu

1                      5                      10                      15  
 Ser Gly Asn Ala Val Pro Pro Gly Ser Pro Phe His Gly Arg Pro Leu  
                     20                      25                      30  
 Leu Leu Leu Gln Pro Ala Gly Pro Val Pro Phe Gln Asp Gln Pro Phe  
                     35                      40                      45  
 Asp Pro Ser Gln Gly Pro Trp Pro Gly Leu His Cys Arg Pro Gln Gly  
                     50                      55                      60  
 Leu Met His Ser Met Cys Leu Pro Asp Leu Thr Pro Glu Asp Gly Gly  
                     65                      70                      75                      80  
 Lys Ala Gln Asp His Thr Ala Leu Gly His Ser Arg Glu Gln Asp Thr  
                     85                      90                      95  
 Pro Gly Val Gln Glu Asn Phe Gln Gly Ala Ala Pro Leu Asp Arg Tyr  
                     100                      105                      110  
 Thr Arg Arg Phe Asn Thr Leu Tyr Tyr Leu Gly Asn Gln Arg Arg Gly  
                     115                      120                      125  
 Ile Ile Lys Thr Arg Lys  
                     130

<210> 952  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 952  
 Met Ala Thr Ala Ser Ile Asn Asn Leu Ile Ser Ser Leu Leu Leu His  
                     1                      5                      10                      15  
 Leu Ser Leu Leu Ser Ser Lys Ala Gly Lys Phe Leu Ile Trp Lys Glu  
                     20                      25                      30  
 His Lys Thr Ala Cys Gly Cys Tyr Ala Asn Ser Thr Cys Leu Leu Pro  
                     35                      40                      45  
 Asn Gly Leu Ser Asn His Lys Gly Lys Ser  
                     50                      55

<210> 953  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 953  
 Met Ala Thr Ala Ser Ile Asn Asn Leu Ile Ser Ser Leu Leu Leu His  
                     1                      5                      10                      15  
 Leu Ser Leu Leu Ser Ser Lys Ala Gly Lys Phe Leu Ile Trp Lys Glu  
                     20                      25                      30



Gly His Trp Thr Gly Ile Ala Asp Ser Leu Val Ala Thr Leu Gly Cys  
                   20                  25                  30

Arg Leu Ser Gly Ser Val Pro Pro Leu Leu Pro Ala Pro Ser Gly  
                   35                  40                  45

His Ser Arg Ala Leu His Gln Thr Leu Thr Trp Cys Leu His Leu Leu  
                   50                  55                  60

Ser Leu Ser Pro Ser Ser Asn Pro Trp Lys Ser Leu Val  
                   65                  70                  75

<210> 957

<211> 27

<212> PRT

<213> Homo sapiens

<400> 957

Met Arg Ala Arg Thr Leu Pro Pro Ser Leu Leu Cys Leu Trp Cys Leu  
                   1                  5                  10                  15

Ala Pro Tyr Leu Asn Ile Cys Trp Met Asn Gly  
                   20                  25

<210> 958

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 958

Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Trp Xaa Glu Glu  
                   1                  5                  10                  15

Gly Gly Ser Pro Glu Val Arg Ser Ser Arg Pro Ala  
                   20                  25

<210> 959

<211> 27

<212> PRT

<213> Homo sapiens

<400> 959

Met Arg Ala Arg Thr Leu Pro Pro Ser Leu Leu Cys Leu Trp Cys Leu  
                   1                  5                  10                  15

Ala Pro Tyr Leu Asn Ile Cys Trp Met Asn Gly  
                   20                  25



<210> 960  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 960  
 Pro Pro Arg Ala Ser Trp Ser Pro Arg Glu His Val Leu  
           1                  5                  10

<210> 961  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 961  
 Met Xaa Xaa His Glu Ser Ile Leu Leu Val Ser Leu Asp Leu Leu Pro  
           1                  5                  10                  15

Thr Ser Ile Leu Leu Val Ser Leu Trp Ile Cys Ser Pro Pro Pro Ser  
                   20                  25                  30

Ser Trp Val Asn Pro Gly Ser Phe Val Gly Tyr Leu Glu Arg Lys Arg  
                   35                  40                  45

Gln Lys Leu Ile Cys Gln Met Thr Arg Thr Asn Arg Leu Phe Gly Met  
           50                  55                  60

Lys Arg Lys Thr Ser Gly  
           65                  70

<210> 962  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 962  
 Ser Leu Ala Leu Asn Ser Pro Pro Pro Gly Leu Arg Val Pro Arg Glu  
           1                  5                  10                  15

Glu Arg Leu Leu Ala Thr Ser Leu Leu Gln Gly Ala Leu Pro Ala Gly

20 25 30  
Pro Cys Pro Ser Thr Thr Leu Leu Ser Trp His Arg Pro Ala Xaa Pro  
35 40 45  
Pro Gly Ala Gln Gly  
50

&lt;210&gt; 963

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 963

Ser Ile Leu Leu Val Ser Leu Asp Leu Leu Pro Thr Ser Ile Leu Leu  
1 5 10 15

Val Ser Leu Trp Ile Cys Ser Pro Pro Pro Ser Ser Trp Val Asn Pro  
20 25 30

Gly Ser Phe Val Gly Tyr Leu Glu Arg Lys Arg Gln Lys Leu Ile Cys  
35 40 45

Gln Met Thr Arg Thr Asn Arg Leu Phe Gly Met Lys Arg Lys Thr Ser  
50 55 60

Gly

65

&lt;210&gt; 964

&lt;211&gt; 3

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 964

Asp Leu Lys

1

&lt;210&gt; 965

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 965

Met Asn Glu Lys Phe Leu Pro Pro Leu  
1 5

&lt;210&gt; 966

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 966

Met Leu Arg Pro Pro Arg Trp Ala Leu Met Ala Ala Ser Ser His Pro  
 1 5 10 15

Pro Pro Leu Trp Ser Trp Val Leu Gly Leu Ala Ala His Pro Thr Gly  
 20 25 30

Met Ser Pro Gly Thr Gly Pro His His Gly Trp Val Ser Ala Ser Ser  
 35 40 45

Ser Ser Ser  
 50

&lt;210&gt; 967

&lt;211&gt; 244

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (231)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (237)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 967

Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Gly Leu Leu  
 1 5 10 15

Leu Val Ala Ile Val Leu Ala His Xaa Leu Ala Phe Phe Trp Phe His  
 20 25 30

His Tyr Gly Pro Pro Pro Pro Xaa Xaa Ala Xaa Phe Val Glu Gln Pro  
 35 40 45

Asp Gly Ser Leu Thr Pro Leu Arg Lys Ala Pro Arg Pro Trp Phe Gly  
 50 55 60  
 Gly Pro Val Val Pro Leu Thr Phe Gln Phe Ile Ser Leu Ile Ile Ala  
 65 70 75 80  
 Ala Trp Tyr Gly Ala Lys Leu Leu Ser Arg Pro Ile Gln Arg Leu Ser  
 85 90 95  
 Ala Ala Ala Glu Arg Leu Ser Val Asp Leu Asp Ser Pro Pro Leu Val  
 100 105 110  
 Glu Thr Gly Pro Arg Glu Ala Arg Gln Ala Ala Ser Thr Phe Asn Leu  
 115 120 125  
 Met Gln Lys Arg Ile Arg Glu Gln Val Ser Gln Arg Ala Arg Met Leu  
 130 135 140  
 Gly Ala Val Ser His Asp Leu Arg Thr Pro Leu Ser Arg Leu Lys Leu  
 145 150 155 160  
 Arg Leu Glu Gln Ile Glu Asp Pro Lys Leu Gln Gly Gln Met Arg Gln  
 165 170 175  
 Asp Leu Asp Asp Met Ile Gly Met Leu Asp Ala Thr Leu Ser Tyr Leu  
 180 185 190  
 His Glu Gln Arg Thr Ser Glu Thr Arg His Trp Leu Asp Val Gln Ala  
 195 200 205  
 Leu Val Glu Ser Leu Ser Glu Asn Ala Gln Asp Gln Gly Arg Asp Val  
 210 215 220  
 Gln Phe Phe Phe Gly Gly Xaa Pro Pro Gly Gly Gly Xaa Pro Lys Thr  
 225 230 235 240  
 Pro Pro Pro Phe

&lt;210&gt; 968

&lt;211&gt; 244

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (231)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (237)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 968

Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Gly Leu Leu  
 1 5 10 15

Leu Val Ala Ile Val Leu Ala His Val Leu Ala Phe Phe Trp Phe His  
                   20                                  25                                  30  
 His Tyr Gly Pro Pro Pro Pro Arg Ala Ala Phe Val Glu Gln Pro  
                   35                                  40                                  45  
 Asp Gly Ser Leu Thr Pro Leu Arg Lys Ala Pro Arg Pro Trp Phe Gly  
                   50                                  55                                  60  
 Gly Pro Val Val Pro Leu Thr Phe Gln Phe Ile Ser Leu Ile Ile Ala  
                   65                                  70                                  75                                  80  
 Ala Trp Tyr Gly Ala Lys Leu Leu Ser Arg Pro Ile Gln Arg Leu Ser  
                   85                                  90                                  95  
 Ala Ala Ala Glu Arg Leu Ser Val Asp Leu Asp Ser Pro Pro Leu Val  
                   100                                  105                                  110  
 Glu Thr Gly Pro Arg Glu Ala Arg Gln Ala Ala Ser Thr Phe Asn Leu  
                   115                                  120                                  125  
 Met Gln Lys Arg Ile Arg Glu Gln Val Ser Gln Arg Ala Arg Met Leu  
                   130                                  135                                  140  
 Gly Ala Val Ser His Asp Leu Arg Thr Pro Leu Ser Arg Leu Lys Leu  
                   145                                  150                                  155                                  160  
 Arg Leu Glu Gln Ile Glu Asp Pro Lys Leu Gln Gly Gln Met Arg Gln  
                   165                                  170                                  175  
 Asp Leu Asp Asp Met Ile Gly Met Leu Asp Ala Thr Leu Ser Tyr Leu  
                   180                                  185                                  190  
 His Glu Gln Arg Thr Ser Glu Thr Arg His Trp Leu Asp Val Gln Ala  
                   195                                  200                                  205  
 Leu Val Glu Ser Leu Ser Glu Asn Ala Gln Asp Gln Gly Arg Asp Val  
                   210                                  215                                  220  
 Gln Phe Phe Phe Gly Gly Xaa Pro Pro Gly Gly Gly Xaa Pro Lys Thr  
                   225                                  230                                  235                                  240  
 Pro Pro Pro Phe

&lt;210&gt; 969

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 969

Gly Ile Gly Ser Arg Val Arg Ala Ala Phe Ile Ala Leu Glu Pro Ser  
                   1                                  5                                  10                                  15

Leu Gly Met Gly Phe Ser Lys Asn Trp Gln Ala His Arg Leu Pro Ser  
                   20                                  25                                  30

Lys Trp Val Arg Thr Ala Tyr Pro Ser Ile Glu Thr His Tyr Leu Phe

35

40

45

Tyr Leu Phe Leu Ser Gly Ser Gly Ala Arg Cys Ser Tyr Phe Ser His  
 50 55 60

Leu Arg Trp Asp Ile Leu Gly Gln Thr Arg Glu Ile Leu Glu Ala Ile  
 65 70 75 80

Ser Val Val Asn Pro  
 85

&lt;210&gt; 970

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 970

Met Lys Thr Val Ser Leu Leu Leu Thr Leu Trp Phe Ser Gln Thr Phe  
 1 5 10 15

Ser Phe Asn Leu Phe Phe Ala Pro Pro His Ser Leu Leu Gln Ser Ser  
 20 25 30

Ile Xaa Xaa Ser Val Ser Ser Ile Thr Thr Val His Pro Xaa Leu Gly  
 35 40 45

Leu Leu Phe Cys Ile Leu  
 50

&lt;210&gt; 971

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 971

Ile Leu Leu Gly Leu Trp Gln Ser Val Leu Gly Ser Ser Ile Trp Gly  
 1 5 10 15

Gln Pro Leu Ser Tyr Asn Cys Gln Glu Pro His Asn Cys Leu Phe Asn  
 20 25 30

His Ser Asp Phe Lys  
35

<210> 972  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 972  
Met Lys Thr Val Ser Leu Leu Leu Thr Leu Trp Phe Ser Gln Thr Phe  
1 5 10 15  
Ser Phe Asn Leu Phe Phe Ala Pro Pro His Ser Leu Leu Gln Ser Ser  
20 25 30  
Ile Phe Phe Ser Val Ser Ser Ile Thr Thr Val His Pro Ile Leu Val  
35 40 45  
Phe Phe Phe Ala Phe Phe Arg Thr  
50 55

<210> 973  
<211> 65  
<212> PRT  
<213> Homo sapiens

<400> 973  
Lys Leu Thr Gln Ala Gly Ser Gly Tyr Val His Arg Glu Ile Phe Pro  
1 5 10 15  
Arg Val Cys Phe Phe Asp Ile Leu Ser Pro Ser Phe Tyr Leu Leu Ala  
20 25 30  
Gly Ile Ser Cys Pro Thr Thr Pro Val Ile Ile Cys Lys Pro Leu Tyr  
35 40 45  
Ser Phe Gln Cys Leu Lys Val Ile His Lys Glu Gly Arg Asn Lys Arg  
50 55 60  
Val  
65

<210> 974  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 974  
Met Thr Leu Ser Asn Trp Glu Tyr Gly Phe His  
1 5 10

<210> 975

<211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 975  
 Met Pro Phe Tyr Tyr Ala Gly Leu Ile Leu Met Glu Met Arg Leu Thr  
 1 5 10 15  
 Ile Ala Lys Thr Pro Val Glu Thr Gln Gln Ser Trp Pro Ala Phe Leu  
 20 25 30  
 Trp Tyr Phe Gly Cys Gly Ser Cys Asp Gly Tyr Ser Ile Lys His Cys  
 35 40 45  
 Ile Ser Leu His Leu Leu Ser Phe Ser Leu Gln Lys  
 50 55 60

<210> 976  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 976  
 Ile Cys Leu Trp Gly Arg Pro Asn Leu Thr Thr Gln Gly Thr Leu Lys  
 1 5 10 15  
 Gly Ile Ser Gly Arg Arg Ser Gln  
 20

<210> 977  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

<400> 977  
 Pro Glu Thr Phe Leu Leu Val Thr Gly Ser Gln Trp Gly Ile Leu Gly  
 1 5 10 15  
 Cys Gln Gly Pro Arg Val Thr Cys Val Gln Leu Phe Tyr Gly Ser Arg  
 20 25 30  
 Gly Leu Ser Leu Arg Gln Ala Thr Lys Cys Pro Gly Cys His Pro Pro  
 35 40 45  
 Trp Ser Pro Ser Val Pro His Ala Trp Ser Pro Ala Ser Pro Arg Ile  
 50 55 60  
 Pro Val Ala Phe Ile Ser Gly Gln Leu Pro Ala Arg Pro Gly Leu Gly  
 65 70 75 80  
 His Gly Leu Arg His Glu Ala Arg Pro Pro Pro Ala Pro Leu Pro Arg  
 85 90 95  
 Gly Ser Ser Ile Pro Leu His Phe Trp Asn Val Cys Ala Ser Met Met  
 100 105 110



Phe Val Tyr Leu Arg His Leu Lys Ile Tyr Phe Arg Tyr Glu Gly Lys  
 115 120 125

<210> 978  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 978  
 Ile Cys Leu Trp Gly Arg Pro Asn Leu Thr Thr Gln Gly Thr Leu Lys  
 1 5 10 15

Gly Ile Ser Gly Arg Arg Ser  
 20

<210> 979  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 979  
 Arg His Leu Gln Val Gly Gly Gly Gln His Gln Cys Gly Gln Ala Cys  
 1 5 10 15

Leu Asp Ser Ser Tyr Arg Pro Leu Leu Cys Met Met Trp Glu Pro Gly  
 20 25 30

His Ser His Ala Pro Ser Arg Ala Gln Gly Cys Gly Ser Thr Thr Glu  
 35 40 45

His Pro Leu Ser His Cys Pro Pro Leu Pro Arg Ala Leu Pro Ser Pro  
 50 55 60

Pro Leu Leu His His Ser Ser Phe Lys Val Pro Leu Leu Tyr  
 65 70 75

<210> 980  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 980  
 Met Pro Leu Gln Arg Arg Val Lys Val Lys Thr Thr Ser Ser Arg Cys  
 1 5 10 15

Leu Pro Gly Thr Thr Trp Gly Leu Thr Leu Phe Ser Met Leu Cys Cys

20                      25                      30  
 Phe Trp Pro Leu Gly Ile Ala Ala Phe Tyr Phe Ser Gln Gly Thr Ser  
                     35                      40                      45  
 Lys Ala Ile Ser Lys Gly Asp Phe Arg Leu Ala Ser Thr Thr Ser Arg  
                     50                      55                      60  
 Arg Ala Leu Phe Leu Ala Thr Xaa Ala Ile Ala Val Gly Ala Gly Leu  
                     65                      70                      75                      80  
 Tyr Val Ala Val Val Val Ala Leu Ala Ala Tyr Met Ser Gln Asn Gly  
                     85                      90                      95  
 His Gly

<210> 981  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 981  
 Met Pro Leu Gln Arg Arg Val Lys Val Lys Thr Thr Ser Ser Arg Cys  
   1                      5                      10                      15  
 Leu Pro Gly Thr Thr Trp Asp Leu Leu Ser Ser Pro Cys Ser Ala Ala  
                     20                      25                      30  
 Ser Gly His Trp Ala Leu Leu Pro Ser Thr Ser Pro Arg Gly Pro Ala  
                     35                      40                      45  
 Arg Pro Ser Pro Lys Gly Thr Ser Ala Trp Pro Ala Pro Pro Pro Ala  
                     50                      55                      60  
 Gly Pro Ser Ser  
                     65

<210> 982  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 982

Met Leu Leu Pro Leu Phe Thr Leu Leu Ile Leu Leu Leu Arg Val Phe  
1 5 10 15

Pro Lys Glu Ile Ile Gln Asn Arg Xaa Lys Leu Lys Ala Glu Lys Cys  
20 25 30

Trp Asn Met Thr Leu Phe Ile Ala Val Gly Lys Met Gly Gly Trp Gly  
35 40 45

Thr Trp Xaa Met Leu Glu Ile Xaa Ala Leu Cys Glu Gly Pro Val Gly  
50 55 60

Glu Asp Ala Leu  
65

<210> 983

<211> 8

<212> PRT

<213> Homo sapiens

<400> 983

Arg Val Phe Pro Val Thr Thr Leu  
1 5

<210> 984

<211> 32

<212> PRT

<213> Homo sapiens

<400> 984

Met Leu Leu Pro Leu Phe Thr Leu Leu Ile Leu Leu Leu Arg Val Phe  
1 5 10 15

Pro Lys Glu Ile Ile Gln Asn Arg Lys Lys Leu Lys Ala Glu Lys Cys  
20 25 30

<210> 985

<211> 10

<212> PRT

<213> Homo sapiens

<400> 985

Met Gly Leu Phe Leu Phe Leu Val Ser Ser  
1 5 10

<210> 986

<211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 986  
 Met Gly Leu Phe Leu Phe Leu Val Ser Ser  
           1                  5                  10

<210> 987  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 987  
 Met Leu Thr Gly Val Ile Ser Gly Ser Thr Gly Ala Met Ala Leu Ser  
           1                  5                  10                  15  
  
 Leu Ala Ser Leu Ser Ala His Cys Phe Ala Phe Arg Cys Leu Ala Ala  
                   20                  25                  30  
  
 Pro Phe Tyr Phe Phe Ala Gly Leu Gly Lys His Gly Arg Arg Ile Leu  
                   35                  40                  45  
  
 Ile Ser Phe Leu Phe Ser Ala Trp  
           50                  55

<210> 988  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 988  
 Met Leu Thr Gly Val Ile Ser Gly Ser Thr Gly Ala Met Ala Leu Ser  
           1                  5                  10                  15  
  
 Leu Ala Ser Leu Ser Ala His Cys Phe Ala Phe Arg Cys Leu Ala Ala  
                   20                  25                  30  
  
 Pro Phe Tyr Phe Phe Ala Gly Leu Gly Lys His Gly Arg Arg Ile Leu  
                   35                  40                  45  
  
 Ile Ser Phe Leu Phe Ser Ala Trp  
           50                  55

<210> 989  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids.

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 989

Ala Glu Xaa Ala Pro Leu His Phe His Leu Gly Asp Gly Glu Arg Leu  
 1 5 10 15

His Leu Lys Lys Lys Lys Asn Lys Lys Lys Lys Pro Lys Gln Gly Trp  
 20 25 30

Ala Arg Trp Leu Thr Pro Val Ile Ser Ala Leu Leu Glu Xaa Gly Ala  
 35 40 45

Gly Val Ser Pro Glu Val Met Ser  
 50 55

&lt;210&gt; 990

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 990

Met Leu Val Ile Ile Ile Met Thr Ala Leu Val Ser His Val Pro Ser  
 1 5 10 15

Val His Ser Val Pro His Ala Val Pro Phe Thr Ser Ser  
 20 25

&lt;210&gt; 991

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 991

Met Leu Val Ile Ile Ile Met Thr Ala Leu Val Ser His Val Pro Ser  
 1 5 10 15

Val His Ser Val Pro His Ala Val Pro Phe Thr Ser Ser  
 20 25

&lt;210&gt; 992

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 992

Val Phe Lys Thr Ile Arg Xaa Arg Glu Ile Ile Leu Tyr His Glu Asn  
 1 5 10 15

Ser Thr Gly Lys Thr His Pro His Asp Ser Leu Ile Ser His Trp Val  
 20 25 30

Pro Xaa Thr Thr Gln Gly Asn Tyr Gly Ser Tyr Lys Met Arg Phe Gly  
 35 40 45

Trp Gly His Arg Ala Arg Pro Tyr Gln Pro Pro Lys  
 50 55 60

&lt;210&gt; 993

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 993

Met Asp Ile Gln Gly Lys Ala Leu Tyr Ile Arg Phe Leu Leu Thr Leu  
 1 5 10 15

Cys Gln Met Val Val Ser Val Met Gly Lys Arg Xaa Gln Gly Arg Arg  
 20 25 30

Gly Leu Gly Gly Ala Ala Ala Val Gly Arg Glu Ile Cys Arg Arg Trp  
 35 40 45

Gly Cys Cys Val Thr  
 50

&lt;210&gt; 994

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 994

Leu Cys Trp Thr Arg Ser Ser Val Ile Gly Ala His  
 1 5 10

&lt;210&gt; 995

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 995

Met Asp Ile Gln Gly Lys Ala Leu Tyr Ile Arg Phe Leu Leu Thr Leu  
 1 5 10 15

Cys Gln Met Val Val Ser Val Met Gly Lys Arg Arg Gln Gly Arg Arg  
 20 25 30

Gly Leu Gly Gly Ala Ala Ala Val Gly Arg Glu Ile Cys Arg Arg Trp  
 35 40 45

Gly Cys Cys Val Thr  
 50

<210> 996

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 996

Lys Gln Gly Ser Leu Leu Gly Trp Ser Arg Val Ile Met Val Arg Gly  
 1 5 10 15

Ala Gln Ser Tyr Xaa Lys Gly Val Leu Cys Arg His Trp Lys Lys Phe  
 20 25 30

Gly Phe Tyr Ser Lys Trp Asn Trp Lys Pro Leu Glu Cys Phe Gln Asn  
 35 40 45

Arg Ser Asp Val Ile  
 50

<210> 997

<211> 53

<212> PRT

<213> Homo sapiens

<400> 997

Met Arg Leu Ile Leu Phe Ala Met Ser Pro Lys Leu Leu Phe Leu Phe  
 1 5 10 15

Leu Phe Leu Tyr Ile Ser Val Lys Ser Phe Asp Leu Val Leu Ser Phe  
 20 25 30

Arg Ser Val Leu Phe Met Ser Asp Leu Ile His Cys Phe Tyr His Gln  
 35 40 45

Leu His Phe Lys Leu  
 50

<210> 998

<211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 998  
 Met Arg Leu Ile Leu Phe Ala Met Ser Pro Lys Leu Leu Phe Leu Phe  
 1 5 10 15  
 Leu Phe Leu Tyr Ile Ser Val Lys Ser Phe Asp Leu Val Leu Ser Phe  
 20 25 30  
 Arg Ser Val Leu Phe Met Ser Asp Leu Ile His Cys Phe Tyr His Gln  
 35 40 45  
 Leu His Phe Lys Leu  
 50

<210> 999  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 999  
 Leu Gly Ile Trp Leu Ile Pro Gly Leu Arg Arg Ala Asn Pro Lys Ile  
 1 5 10 15  
 Ser Leu Glu Tyr Leu Met Val Pro Glu Asn Lys Tyr Ser Lys Asn Cys  
 20 25 30  
 Glu Xaa Met Leu Lys Gly Leu Arg Ser Gln Pro Glu Gly Ala Ala Asn  
 35 40 45  
 Gly Gln Ser Trp Asn Asn Ser Asn Lys Val Asn Lys Tyr Ser Ile Gly  
 50 55 60  
 Leu Leu Leu Asn Lys Cys Met Ile His Glu Ser Thr Leu Lys Asp  
 65 70 75

<210> 1000  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 1000  
 Met Phe His Arg Phe Phe Ile Leu Ser Ala Leu Ser Arg Ile Arg Ala  
 1 5 10 15  
 Leu Thr Thr Phe Leu Asp Asp Leu Gly Met Thr His Gln Thr Leu Leu  
 20 25 30  
 Leu Leu Leu Gly Pro Ser Ile Tyr Ser Phe Cys



35

40

<210> 1001  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 1001  
 Met Phe His Arg Phe Phe Ile Leu Ser Ala Leu Ser Arg Ile Arg Ala  
           1                  5                  10                  15  
 Leu Thr Thr Phe Leu Asp Asp Leu Gly Met Thr His Gln Thr Leu Leu  
                   20                  25                  30  
 Leu Leu Leu Gly Pro Ser Ile Tyr Ser Phe Cys  
           35                  40

<210> 1002  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (99)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (104)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (108)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (109)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1002  
 Val Gln Val Leu Thr Gln Tyr Tyr Gln Ser Asn Ile Leu Asn Ile Leu  
           1                  5                  10                  15

Ser Gln Val Ile Cys Leu Ser Ile Val Tyr Phe Glu Gly Phe Leu Ser  
 20 25 30  
 Phe Thr Phe Asn Leu Phe Phe Ile Ser Ile Ser Ser Xaa Val Ala Leu  
 35 40 45  
 Ser Tyr Ser Tyr Pro Asp Ile His Leu Ile Ser Glu Gly Leu Asp Ile  
 50 55 60  
 Thr Leu Val Lys Met Gln Ser Asp Leu Ile Leu Phe Leu Lys Gln Thr  
 65 70 75 80  
 Ala Val Leu Leu Glu Arg Pro Arg Ala His Arg Phe Ser Thr Arg Val  
 85 90 95  
 Gly Tyr Xaa Val Ser Val His Xaa Ser Gly Ser Xaa Xaa Val Xaa  
 100 105 110

&lt;210&gt; 1003

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1003

Met Leu Tyr Val Arg Leu Leu Lys Asn Thr Lys Ile Xaa Val Leu Ile  
 1 5 10 15  
 Leu Pro Leu Phe Ile Leu Phe Leu Thr Leu Phe Leu Phe Ile Pro Asn  
 20 25 30  
 Gly Phe Leu Phe Val Phe Val Ser Leu Tyr Phe  
 35 40

&lt;210&gt; 1004

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1004

Met Phe Ile Val Phe Ser Val Leu Leu Leu Phe Phe Gln Phe Ala Ile  
 1 5 10 15  
 Cys Gln Phe Ala Asp Leu Ala Ile Phe Pro Leu Ser Met Cys Gln Leu  
 20 25 30  
 Cys Asn Leu Ser Ala Arg Leu Ala Ala Pro Ser Ala Arg Phe Glu Gly  
 35 40 45  
 Leu Gly Ile Asn Arg Thr Arg Lys Ala Glu Gly Ser Leu Pro Thr Thr  
 50 55 60

Ala Val Gln Leu Leu Pro Tyr Lys Ser Gln Ala Val Gln Val Gln His  
 65 70 75 80

Pro Gln Ala Val Ile Val Asp Lys Leu Ser Val Ile Ser Leu Arg Ser  
 85 90 95

Ile Cys Ile Asp Gln Leu Lys Phe Met Glu Met Glu Asn Ile Ile Lys  
 100 105 110

Pro Gly Tyr Val Thr Ser  
 115

<210> 1005  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1005  
 Ser Ile Lys Ser Cys Ser Ser Phe Tyr Leu Gly Ser Arg Val Asn Arg  
 1 5 10 15

Ala Gln Leu Thr Asn Tyr Pro Pro Ala Met Arg Thr Tyr Val Tyr Glu  
 20 25 30

Cys His Cys Asp Lys Ser Thr Ser Arg Ala Thr Ala Gly Pro Ser Ile  
 35 40 45

Phe His Pro Gly Gly Val Xaa Gly Met Trp Xaa Ile Phe Ala Xaa Val  
 50 55 60

<210> 1006  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1006

His Ser Pro Glu Ser Cys Tyr Ser Phe Asn Leu Gly Ser Arg Met Arg  
1 5 10 15

Ile Ser Val Glu Xaa Lys Xaa Ala Lys Ser Asn Ser Ala Ala Asp Asn  
20 25 30

Pro Glu Thr Leu Arg Lys Gly Tyr Val Xaa  
35 40

<210> 1007

<211> 76

<212> PRT

<213> Homo sapiens

<400> 1007

Met Leu Val Leu Leu Ser Leu Leu Ala Ser Gly Gly Leu Pro Leu Leu  
1 5 10 15

Leu Val Gly Asp Val Leu Ala Ser Lys Ser Ser Thr Val Leu Phe Leu  
20 25 30

Pro Gly Asp Ser Ser Pro Gly Cys Ser Met Ile Thr Pro Leu Pro Pro  
35 40 45

Ser Arg Met Cys Leu Lys Ala Gly Ser Ser Gly Glu Gln Thr Val Val  
50 55 60

Pro Leu Ser Leu Leu Leu Arg Ser Lys Ser Ser Lys  
65 70 75

<210> 1008

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1008

Met Leu Val Leu Leu Ser Leu Leu Ala Ser Gly Gly Leu Pro Leu Leu  
1 5 10 15

Leu Val Gly Asp Val Leu Ala Ser Lys Ser Ser Thr Val Leu Phe Leu  
                   20                                  25                                  30  
 Pro Gly Asp Ser Ser Pro Gly Cys Ser Met Ile Thr Pro Leu Pro Pro  
                   35                                  40                                  45  
 Ser Arg Met Cys Leu Lys Ala Gly Ser Ser Gly Glu Gln Thr Val Val  
                   50                                  55                                  60  
 Pro Leu Ser Leu Leu Leu Xaa Ser Lys Ser Ser Lys  
                   65                                  70                                  75

<210> 1009  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 1009  
 Cys His Leu Gln His Ser Cys Arg Glu  
   1                                  5

<210> 1010  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 1010  
 Met Thr Ala Leu Phe Cys Ser Leu Leu His Ser Leu Val Ser Leu Leu  
   1                                  5                                  10                                  15

Leu Pro Thr Lys Trp Gly Gln Gly Lys Ala Phe Leu Thr Gly Pro Leu  
                   20                                  25                                  30

Phe Ser

<210> 1011  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 1011  
 Phe Ser Cys Cys Leu Ser Leu Pro Ile Ser  
   1                                  5                                  10

<210> 1012  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1012

Met Trp Cys Leu Val Phe Cys Ser Cys Val Ser Leu Pro Arg Met Met  
 1 5 10 15  
 Ala Ser Ser Phe Ile His Asp Ile Ala Lys Asp Met Ile Ser Phe Leu  
 20 25 30  
 Phe Met Ser Ala Trp Tyr Tyr Thr Tyr Phe Asn Ser Phe Glu Ile Tyr  
 35 40 45  
 Arg Phe Gln Phe Thr Phe Ile Glu Tyr Ser Leu Trp Val Lys His His  
 50 55 60  
 Ala Ser Leu Pro Gly Val Gln  
 65 70

<210> 1013  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 1013  
 Met Trp Cys Leu Val Phe Cys Ser Cys Val Ser Leu Pro Arg Met Met  
 1 5 10 15  
 Ala Ser Ser Phe Ile His Asp Ile Ala Lys Asp Met Ile Ser Phe Leu  
 20 25 30  
 Phe Met Ser Ala Trp Tyr Tyr Thr Tyr Phe Asn Ser Phe Glu Ile Tyr  
 35 40 45  
 Arg Phe Gln Phe Thr Phe Ile Glu Tyr Ser Leu Trp Val Lys His His  
 50 55 60  
 Ala Ser Leu Pro Gly Val Gln  
 65 70

<210> 1014  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 1014  
 Ala Arg Arg Glu Gly Arg Ser Arg Thr Ala Val Gly Ser Thr Pro Ala  
 1 5 10 15  
 Ala Pro Leu Ser Leu Thr Arg Gly Gly Gln Cys Pro Ser Arg Gly Ser  
 20 25 30  
 Pro Leu Ala Leu Phe Gly His Pro Leu Ala Ser Gln Lys His Ser Glu  
 35 40 45  
 Thr Lys Thr Phe Pro Phe Pro Pro His Met Val Leu Arg Leu Pro  
 50 55 60  
 Ala Ala Met Gln Leu Lys Gln Leu Ile Phe  
 65 70

&lt;210&gt; 1015

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1015

Met Ser Leu Ser Leu Ile Ser Leu Ser Phe Leu Phe Pro Ala Gly Ala  
1 5 10 15

Gly Arg Arg Ser Cys  
20

&lt;210&gt; 1016

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1016

Met Ser Leu Ser Leu Ile Ser Leu Ser Phe Leu Phe Pro Ala Gly Ala  
1 5 10 15

Gly Arg Arg Ser Cys  
20

&lt;210&gt; 1017

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1017

Met Leu His Trp Gly Val Leu Cys Ser Leu Phe Leu Met Leu Phe Asn  
1 5 10 15

Glu Gly Ala Ser Ala Ser Leu Gln Gln  
20 25

&lt;210&gt; 1018

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1018

Met Leu His Trp Gly Val Leu Cys Ser Leu Phe Leu Met Leu Phe Asn  
1 5 10 15

Glu Gly Ala Ser Ala Ser Leu Ser Asn Lys Arg Ser Met Arg Glu Asp  
20 25 30

Arg Ala Val His Gly Tyr Gly Tyr Trp Thr Arg Ile Phe Gly Lys Val  
35 40 45

Lys Ala Asp His Trp Ile Trp  
50 55

<210> 1019  
<211> 95  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1019  
Met Arg Ala Cys Leu Cys Ala Gly Val Cys Met Cys Xaa Ala Ser Cys  
1 5 10 15  
Leu Gly Leu Pro Met Asn Val Val Glu Cys Tyr Thr Trp Arg Val Leu  
20 25 30  
Val Phe His Gln Phe Gln Asp Glu Glu Leu His Asp Thr Val Asp Leu  
35 40 45  
Glu Thr Ile Pro Leu Glu Arg Gln Pro Arg Asp Val Gln His Pro Val  
50 55 60  
Ser Thr Arg Ile Leu Tyr Leu His Val Tyr Phe Val Ala Val Thr Leu  
65 70 75 80  
Thr Leu Ile Arg Ile Leu Gln Leu Trp Thr Glu Ala Phe Ser Pro  
85 90 95

<210> 1020  
<211> 261  
<212> PRT  
<213> Homo sapiens

<400> 1020  
Met Glu Leu Leu Gln Val Thr Ile Leu Phe Leu Leu Pro Ser Ile Cys  
1 5 10 15  
Ser Ser Asn Ser Thr Gly Val Leu Glu Ala Ala Asn Asn Ser Leu Val  
20 25 30  
Val Thr Thr Thr Lys Pro Ser Ile Thr Thr Pro Asn Thr Glu Ser Leu  
35 40 45  
Gln Lys Asn Val Val Thr Pro Thr Thr Gly Thr Thr Pro Lys Gly Thr  
50 55 60  
Ile Thr Asn Glu Leu Leu Lys Met Ser Leu Met Ser Thr Ala Thr Phe  
65 70 75 80  
Leu Thr Ser Lys Asp Glu Gly Leu Lys Ala Thr Thr Thr Asp Val Arg  
85 90 95



Lys Asn Asp Ser Ile Ile Ser Asn Val Thr Val Thr Ser Val Thr Leu  
 100 105 110

Pro Asn Ala Val Ser Thr Leu Gln Ser Ser Lys Pro Lys Thr Glu Thr  
 115 120 125

Gln Ser Ser Ile Lys Thr Thr Glu Ile Pro Gly Ser Val Leu Gln Pro  
 130 135 140

Asp Ala Ser Pro Ser Lys Thr Gly Thr Leu Thr Ser Ile Pro Val Thr  
 145 150 155 160

Ile Pro Glu Asn Thr Ser Gln Ser Gln Val Ile Gly Thr Glu Gly Gly  
 165 170 175

Lys Asn Ala Ser Thr Ser Ala Thr Ser Arg Ser Tyr Ser Ser Ile Ile  
 180 185 190

Leu Pro Val Val Ile Ala Leu Ile Val Ile Thr Leu Ser Val Phe Val  
 195 200 205

Leu Val Gly Leu Tyr Arg Met Cys Trp Lys Ala Asp Pro Gly Thr Pro  
 210 215 220

Glu Asn Gly Asn Asp Gln Pro Gln Ser Asp Lys Glu Ser Val Lys Leu  
 225 230 235 240

Leu Thr Val Lys Thr Ile Ser His Glu Ser Gly Glu His Ser Ala Gln  
 245 250 255

Gly Lys Thr Lys Asn  
 260

<210> 1021

<211> 260

<212> PRT

<213> Homo sapiens

<400> 1021

Met Glu Leu Leu Gln Val Thr Ile Leu Phe Leu Leu Pro Ser Ile Cys  
 1 5 10 15

Ser Ser Asn Ser Thr Gly Val Leu Glu Ala Ala Asn Asn Ser Leu Val  
 20 25 30

Thr Thr Thr Lys Pro Ser Ile Thr Thr Pro Asn Thr Glu Ser Leu Gln  
 35 40 45

Lys Asn Val Val Thr Pro Thr Thr Gly Thr Thr Pro Lys Gly Thr Ile  
 50 55 60

Thr Asn Glu Leu Leu Lys Met Ser Leu Met Ser Thr Ala Thr Phe Leu  
 65 70 75 80

Thr Ser Lys Asp Glu Gly Leu Lys Ala Thr Thr Thr Asp Val Arg Lys  
 85 90 95

Asn Asp Ser Ile Ile Ser Asn Val Thr Val Thr Ser Val Thr Leu Pro

100	105	110
Asn Ala Val Ser Thr Leu Gln Ser Ser Lys Pro Lys Thr Glu Thr Gln		
115	120	125
Ser Ser Ile Lys Thr Thr Glu Ile Pro Gly Ser Val Leu Gln Pro Asp		
130	135	140
Ala Ser Pro Ser Lys Thr Gly Thr Leu Thr Ser Ile Pro Val Thr Ile		
145	150	155
Pro Glu Asn Thr Ser Gln Ser Gln Val Ile Gly Thr Glu Gly Gly Lys		
165	170	175
Asn Ala Ser Thr Ser Ala Thr Ser Arg Ser Tyr Ser Ser Ile Ile Leu		
180	185	190
Pro Val Val Ile Ala Leu Ile Val Ile Thr Leu Ser Val Phe Val Leu		
195	200	205
Val Gly Leu Tyr Arg Met Cys Trp Lys Ala Asp Pro Gly Thr Pro Glu		
210	215	220
Asn Gly Asn Asp Gln Pro Gln Ser Asp Lys Glu Ser Val Lys Leu Leu		
225	230	235
Thr Val Lys Thr Ile Ser His Glu Ser Gly Glu His Ser Ala Gln Gly		
245	250	255
Lys Thr Lys Asn		
260		

<210> 1022  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 1022  
 Cys Val Leu Glu Pro Thr Ser Ser Gln Ser Ile Ala Pro Asp Leu Gly  
 1 5 10 15  
 Arg Glu Ser Thr Phe Ser Ile Gln Arg Asn Lys Asn Met Gln Phe Met  
 20 25 30  
 Val Val Leu Trp Thr Leu Thr Asp Cys Glu Gly Lys Val Tyr Pro Lys  
 35 40 45  
 Ala Val Ile Cys Arg  
 50

<210> 1023  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 1023

Met Met Leu Pro Val Ile Ser Leu Phe Leu Ile Ser Leu His Leu Pro  
 1 5 10 15  
 Ile Phe Cys Phe Gln Arg Leu Leu Leu Phe Lys Gly Phe Leu Phe Ile  
 20 25 30  
 Ala Asn Ser Ser Asn Leu His Ile Lys  
 35 40

<210> 1024  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 1024  
 Met Met Leu Pro Val Ile Ser Leu Phe Leu Ile Ser Leu His Leu Pro  
 1 5 10 15  
 Ile Phe Cys Phe Gln Arg Leu Leu Leu Phe Lys Gly Phe Leu Phe Ile  
 20 25 30  
 Ala Asn Ser Ser Asn Leu His Ile Lys  
 35 40

<210> 1025  
 <211> 162  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1025  
 Lys Thr Val Met Leu Pro Ile Ala Gln Glu Val Gln Ser Pro Val Xaa  
 1 5 10 15  
 Xaa Xaa Cys Asp Lys Leu Ala Ala Asp Cys Ala His Glu Leu Arg Arg  
 20 25 30  
 His Gly Val Ser Cys Val Ser Leu Trp Pro Gly Ile Val Gln Thr Glu  
 35 40 45  
 Leu Leu Lys Glu His Met Ala Lys Glu Glu Val Leu Gln Asp Pro Val  
 50 55 60

Leu Lys Gln Phe Lys Ser Ala Phe Ser Ser Ala Glu Thr Thr Glu Leu  
 65 70 75 80  
 Ser Gly Lys Cys Val Val Ala Leu Ala Thr Asp Pro Asn Ile Leu Ser  
 85 90 95  
 Leu Ser Gly Lys Val Leu Pro Ser Cys Asp Leu Ala Arg Arg Tyr Gly  
 100 105 110  
 Leu Arg Asp Val Asp Gly Arg Pro Val Gln Asp Tyr Leu Ser Leu Ser  
 115 120 125  
 Ser Val Leu Ser His Val Ser Gly Leu Gly Trp Leu Ala Ser Tyr Leu  
 130 135 140  
 Pro Ser Phe Leu Arg Val Pro Lys Trp Ile Ile Ala Leu Tyr Thr Ser  
 145 150 155 160  
 Lys Phe

<210> 1026  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 1026  
 Met Ala Arg Trp Leu Leu Pro Cys Leu Pro Pro Leu His Ser Val Thr  
 1 5 10 15  
 Ser Trp Leu Leu Thr Val Pro Thr Ser Cys Gly Ala Met Gly Ser Ala  
 20 25 30  
 Val Cys Leu Cys Gly Arg Gly Leu Cys Arg Gln Asn Cys  
 35 40 45

<210> 1027  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1027  
 Leu Pro Pro Phe Pro Gln Cys Asp Lys Leu Ala Ala Asp Cys Pro Thr  
 1 5 10 15  
 Ser Cys Gly Ala Met Gly Ser Ala Val Cys Leu Cys Xaa Arg Gly Leu  
 20 25 30  
 Cys Arg Gln Asn Cys  
 35

<210> 1028  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 1028  
 Met Ala Arg Trp Leu Leu Pro Cys Leu Pro Pro Leu His Ser Val Thr  
           1                  5                  10                  15  
 Ser Trp Leu Leu Thr Val Pro Thr Ser Cys Gly Ala Met Gly Ser Ala  
                   20                  25                  30  
 Val Cys Leu Cys Gly Arg Gly Leu Cys Arg Gln Asn Cys  
                   35                  40                  45

<210> 1029  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 1029  
 Met Asp Gln Phe Leu Gln Tyr Leu Leu Glu Cys Met Leu Leu Cys Thr  
           1                  5                  10                  15  
 Thr Ala Gly Ala Ser Gly Ala Thr Tyr Val Pro Thr Arg  
                   20                  25

<210> 1030  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 1030  
 Met Asp Gln Phe Leu Gln Tyr Leu Leu Glu Cys Met Leu Leu Cys Thr  
           1                  5                  10                  15  
 Thr Ala Gly Ala Ser Gly Ala His Leu Cys Thr Asn Glu Met Thr Leu  
                   20                  25                  30  
 Leu Glu Ala Ile Leu Tyr Leu Gln Trp Met  
                   35                  40

<210> 1031  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 1031  
 Cys Leu Ile Leu Gln Glu Glu Asn Arg Lys Glu Leu Ser Asn Leu Ala  
           1                  5                  10                  15

Asn Arg Tyr Lys Ile Asp Ser Arg Val Leu Ser Pro Thr Leu Gly Trp  
                   20                  25                  30

Gln Pro Val Gly Gln Thr Pro Lys Thr Val Ala Asp Val Phe Phe Cys  
                   35                  40                  45

Leu Pro Ser Leu Gly  
                   50

<210> 1032

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1032

Met Leu Leu Phe His Val Trp Val Asp Leu Ala Cys Trp Gly Val Leu  
           1                  5                  10                  15

Val His Ser Leu Lys Leu Ala Ser Phe His Trp Gly Leu Lys Ser Thr  
                   20                  25                  30

Ser Thr Pro Thr Leu Val Met Ser Pro Glu Asp Pro Gly Asp Ser Thr  
                   35                  40                  45

Val Asn Ile Val Ser Thr Leu Leu  
           50                  55

<210> 1033

<211> 4

<212> PRT

<213> Homo sapiens

<400> 1033

Val Trp Met Pro  
           1

<210> 1034

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1034

Met Leu Leu Phe His Val Trp Val Asp Leu Ala Cys Trp Gly Val Leu  
           1                  5                  10                  15

Val His Ser Leu Lys Leu Ala Ser Phe His Trp Gly Leu Lys Ser Thr  
                   20                  25                  30

Ser Thr Pro Thr Leu Val Met Ser Pro Glu Asp Pro Gly Asp Ser Thr  
                   35                  40                  45

Val Asn Ile Val Ser Thr Leu Leu  
           50                  55

<210> 1035  
 <211> 491  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1035  
 Ala Ala Arg Val Gly Arg His Gly Arg Arg Arg Arg Ser Ala Ala Met  
     1                    5                    10                    15  
 Ala Gly Arg Gly Gly Ser Ala Leu Leu Ala Leu Cys Gly Ala Leu Ala  
                     20                    25                    30  
 Ala Cys Gly Trp Leu Leu Gly Ala Glu Xaa Xaa Xaa Pro Gly Ala Pro  
                     35                    40                    45  
 Ala Ala Gly Met Arg Arg Arg Arg Arg Leu Gln Gln Glu Asp Gly Ile  
                     50                    55                    60  
 Ser Phe Glu Tyr His Arg Tyr Pro Glu Leu Arg Glu Ala Leu Val Ser  
                     65                    70                    75                    80  
 Val Trp Leu Gln Cys Thr Ala Ile Ser Arg Ile Tyr Thr Val Gly Arg  
                     85                    90                    95  
 Ser Phe Glu Gly Arg Glu Leu Leu Val Ile Glu Leu Ser Asp Asn Pro  
                     100                    105                    110  
 Gly Val His Glu Pro Gly Glu Pro Glu Phe Lys Tyr Ile Gly Asn Met  
                     115                    120                    125  
 His Gly Asn Glu Ala Val Gly Arg Glu Leu Leu Ile Phe Leu Ala Gln  
                     130                    135                    140  
 Tyr Leu Cys Asn Glu Tyr Gln Lys Gly Asn Glu Thr Ile Val Asn Leu  
                     145                    150                    155                    160  
 Ile His Ser Thr Arg Ile His Ile Met Pro Ser Leu Asn Pro Asp Gly  
                     165                    170                    175  
 Phe Glu Lys Ala Ala Ser Gln Pro Gly Glu Leu Lys Asp Trp Phe Val  
                     180                    185                    190  
 Gly Arg Ser Asn Ala Gln Gly Ile Asp Leu Asn Arg Asn Phe Pro Asp

195	200	205
Leu Asp Arg Ile Val Tyr Val Asn Glu Lys Glu Gly Gly Pro Asn Asn 210 215 220		
His Leu Leu Lys Asn Met Lys Lys Ile Val Asp Gln Asn Thr Lys Leu 225 230 235 240		
Ala Pro Glu Thr Lys Ala Val Ile His Trp Ile Met Asp Ile Pro Phe 245 250 255		
Val Leu Ser Ala Asn Leu His Gly Gly Asp Leu Val Ala Asn Tyr Pro 260 265 270		
Tyr Asp Glu Thr Arg Ser Gly Ser Ala His Glu Tyr Ser Ser Ser Pro 275 280 285		
Asp Asp Ala Ile Phe Gln Ser Leu Ala Arg Ala Tyr Ser Ser Phe Asn 290 295 300		
Pro Ala Met Ser Asp Pro Asn Arg Pro Pro Cys Arg Lys Asn Asp Asp 305 310 315 320		
Asp Ser Ser Phe Val Asp Gly Thr Thr Asn Gly Gly Ala Trp Tyr Ser 325 330 335		
Val Pro Gly Gly Met Gln Asp Phe Asn Tyr Leu Ser Ser Asn Cys Phe 340 345 350		
Glu Ile Thr Val Glu Leu Ser Cys Glu Lys Phe Pro Pro Glu Glu Thr 355 360 365		
Leu Lys Thr Tyr Trp Glu Asp Asn Lys Asn Ser Leu Ile Ser Tyr Leu 370 375 380		
Glu Gln Ile His Arg Gly Val Lys Gly Phe Val Arg Asp Leu Gln Gly 385 390 395 400		
Asn Pro Ile Ala Asn Ala Thr Ile Ser Val Glu Gly Ile Asp His Asp 405 410 415		
Val Thr Ser Ala Lys Asp Gly Asp Tyr Trp Arg Leu Leu Ile Pro Gly 420 425 430		
Asn Tyr Lys Leu Thr Ala Ser Ala Pro Gly Tyr Leu Ala Ile Thr Lys 435 440 445		
Lys Val Ala Val Pro Tyr Ser Pro Ala Ala Gly Val Asp Phe Glu Leu 450 455 460		
Glu Ser Phe Ser Glu Arg Lys Glu Glu Glu Lys Glu Glu Leu Met Glu 465 470 475 480		
Trp Trp Lys Met Met Ser Glu Thr Leu Asn Phe 485 490		

&lt;210&gt; 1036

&lt;211&gt; 255



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1036

Leu Leu Leu Trp Thr Met Ser Val Ile Phe Phe Ala Cys Val Val Arg  
 1 5 10 15

Val Arg Asp Gly Leu Pro Leu Ser Ala Ser Thr Asp Phe Tyr His Thr  
 20 25 30

Gln Asp Phe Leu Glu Trp Arg Arg Arg Leu Lys Ser Leu Ala Leu Arg  
 35 40 45

Leu Ala Gln Tyr Pro Gly Arg Gly Ser Ala Glu Gly Cys Asp Phe Ser  
 50 55 60

Ile His Phe Ser Ser Phe Gly Asp Val Ala Cys Met Ala Ile Cys Ser  
 65 70 75 80

Cys Gln Cys Pro Ala Ala Met Ala Phe Cys Phe Leu Glu Thr Leu Trp  
 85 90 95

Trp Glu Phe Thr Ala Ser Tyr Asp Thr Thr Cys Ile Gly Leu Ala Ser  
 100 105 110

Arg Pro Tyr Ala Phe Leu Glu Phe Asp Ser Ile Ile Gln Lys Val Lys  
 115 120 125

Trp His Phe Asn Tyr Val Ser Ser Ser Gln Met Glu Cys Ser Leu Glu  
 130 135 140

Lys Ile Gln Glu Glu Leu Lys Leu Gln Pro Pro Ala Val Leu Thr Leu  
 145 150 155 160

Glu Asp Thr Asp Val Ala Asn Gly Val Met Asn Gly His Thr Pro Met  
 165 170 175

His Leu Glu Pro Ala Pro Asn Phe Arg Met Glu Pro Val Thr Ala Leu  
 180 185 190

Gly Ile Leu Ser Leu Ile Leu Asn Ile Met Cys Ala Ala Leu Asn Leu  
 195 200 205

Ile Arg Gly Val His Leu Ala Glu His Ser Leu Gln Val Ala His Glu  
 210 215 220

Glu Ile Gly Asn Ile Leu Ala Phe Leu Val Pro Phe Val Ala Cys Ile  
 225 230 235 240

Phe Gln Asp Pro Arg Ser Trp Phe Cys Trp Leu Asp Gln Thr Ser  
 245 250 255

&lt;210&gt; 1037

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1037

Met Leu Leu Leu Leu Val Phe Leu Val Ala Cys Phe Ile Asn Arg Lys  
 1 5 10 15

Cys Gln Lys Gln Arg Lys Lys Lys Pro Ala Glu Asp Ile Leu Glu Glu  
 20 25 30

Tyr Pro Leu Asn Thr Lys Val Glu Val Pro Lys Xaa His Pro Asp Arg  
 35 40 45

Val Glu Lys Asn Val Asn Arg His Tyr Cys Thr Val Arg Asn Val Asn  
 50 55 60

Ile Leu Ser Glu Pro Glu Ala Ala Tyr Thr Phe Lys Gly Ala Lys Val  
 65 70 75 80

Lys Arg Leu Asn Leu Glu Val Arg Val His Asn Asn Leu Gln Asp Gly  
 85 90 95

Thr Glu Val

&lt;210&gt; 1038

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1038

Met Pro Val Leu Leu  
 1 5

&lt;210&gt; 1039

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1039

Met Leu Leu Leu Leu Val Phe Leu Val Ala Cys Phe Ile Asn Arg Lys  
 1 5 10 15

Cys Gln Lys Gln Arg Lys Lys Lys Pro Ala Glu Asp Ile Leu Glu Glu  
 20 25 30

Tyr Pro Leu Asn Thr Lys Val Glu Val Pro Lys Arg His Pro Asp Arg  
 35 40 45

Val Glu Lys Asn Val Asn Arg His Tyr Cys Thr Val Arg Asn Val Asn  
 50 55 60

Ile Leu Ser Glu Pro Glu Ala Ala Tyr Thr Phe Lys Gly Ala Lys Val  
 65 70 75 80

Lys Arg Leu Asn Leu Glu Val Arg Val His Asn Asn Leu Gln Asp Gly  
                   85                                  90                                  95

Thr Glu Val

<210> 1040  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<400> 1040  
 Leu Leu Asp Leu Thr Asn Arg Leu Val Thr Cys Ile Asp Gln Ser Lys  
   1                          5                          10                          15  
 Pro Asn Ile Leu Ala Ser Leu Ser Leu Ala Glu Gln Thr Arg Val Gly  
                   20                          25                          30  
 Ile Trp Val Gly Ala Phe Ser Ile Lys Asp Asn Leu Ser Leu Cys Ser  
                   35                          40                          45  
 Gln Gly Glu His Leu Cys Phe Val Leu Lys Ala Gly Ser Pro Trp Phe  
                   50                          55                          60  
 Ala Asn Cys Leu Gln Glu  
   65                          70

<210> 1041  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1041  
 Met Leu Gln Tyr Thr Trp Leu Ile Leu Val Phe Leu Ser Ser Cys Leu  
   1                          5                          10                          15  
 Ser Ala Thr Trp Phe Cys Lys Val Val Val Ala Ala Ile Gly Ser Thr  
                   20                          25                          30  
 Val Gly Ser Ser Arg Leu His Phe Lys Arg Ser Gly Gln Cys Leu Arg  
                   35                          40                          45

<210> 1042  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1042  
 Met Leu Gln Tyr Thr Trp Leu Ile Leu Val Phe Leu Ser Ser Cys Leu  
   1                          5                          10                          15

Ser Ala Thr Trp Phe Cys Lys Val Val Val Ala Ala Ile Gly Ser Thr  
                   20                  25                  30

Val Gly Ser Ser Arg Leu His Phe Lys Arg Ser Gly Gln Cys Leu Arg  
                   35                  40                  45

<210> 1043

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1043

Met Val Ala Val Asp Phe Ser Cys Leu Ser Phe Ile Leu Leu Gly Ile  
   1                  5                  10                  15

Leu Val Leu Tyr Ile Tyr Phe Val Met Tyr Ala Cys Ser Ile Pro Thr  
                   20                  25                  30

Leu Phe Ser Val Phe Tyr Xaa Glu Glu Met Leu Asn Leu Ser Lys Leu  
                   35                  40                  45

Ser Cys Ile Tyr  
                   50

<210> 1044

<211> 13

<212> PRT

<213> Homo sapiens

<400> 1044

Cys Phe His Phe Phe Leu Cys Pro Ile Leu Val Leu Val  
   1                  5                  10

<210> 1045

<211> 1

<212> PRT

<213> Homo sapiens

<400> 1045

Cys  
   1

<210> 1046

<211> 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1046

Met Val Ala Val Asp Phe Ser Cys Leu Ser Phe Ile Leu Leu Gly Ile  
 1 5 10 15

Leu Val Leu Tyr Ile Tyr Phe Val Met Tyr Ala Cys Ser Ile Pro Thr  
 20 25 30

Leu Phe Ser Val Leu  
 35

&lt;210&gt; 1047

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1047

Asn Leu Ser Lys Ile Ile  
 1 5

&lt;210&gt; 1048

&lt;211&gt; 183

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1048

Met Met Asn Val Ser Lys Ile Ser Phe Phe Ala Met Phe Leu Met Tyr  
 1 5 10 15

Leu Leu Ala Ala Leu Phe Gly Tyr Leu Thr Phe Tyr Glu His Val Glu  
 20 25 30

Ser Glu Leu Leu His Thr Tyr Ser Ser Ile Leu Gly Thr Asp Ile Leu  
 35 40 45

Leu Leu Ile Val Arg Leu Ala Val Leu Met Ala Val Thr Leu Thr Val  
 50 55 60

Pro Val Val Ile Phe Pro Ile Arg Ser Ser Val Thr His Leu Leu Cys  
 65 70 75 80

Ala Ser Lys Asp Phe Ser Trp Trp Arg His Ser Leu Ile Thr Val Ser  
 85 90 95

Ile Leu Ala Phe Thr Asn Leu Leu Val Ile Phe Val Pro Thr Ile Arg  
 100 105 110

Asp Ile Phe Gly Phe Ile Gly Ala Ser Ala Ala Ser Met Leu Ile Phe  
 115 120 125

Ile Leu Pro Ser Ala Phe Tyr Ile Lys Leu Val Lys Lys Glu Pro Met  
 130 135 140

Lys Ser Val Gln Lys Ile Gly Ala Leu Phe Phe Leu Leu Ser Gly Val

145                      150                      155                      160  
 Leu Val Met Thr Gly Ser Met Ala Leu Ile Val Leu Asp Trp Val His  
                                  165                      170                      175  
 Asn Ala Pro Gly Gly Gly His  
                                  180

<210> 1049  
 <211> 183  
 <212> PRT  
 <213> Homo sapiens

<400> 1049  
 Met Met Asn Val Ser Lys Ile Ser Phe Phe Ala Met Phe Leu Met Tyr  
   1                                  5                                  10                                  15  
 Leu Leu Ala Ala Leu Phe Gly Tyr Leu Thr Phe Tyr Glu His Val Glu  
                                   20                                  25                                  30  
 Ser Glu Leu Leu His Thr Tyr Ser Ser Ile Leu Gly Thr Asp Ile Leu  
                                   35                                  40                                  45  
 Leu Leu Ile Val Arg Leu Ala Val Leu Met Ala Val Thr Leu Thr Val  
                                   50                                  55                                  60  
 Pro Val Val Ile Phe Pro Ile Arg Ser Ser Val Thr His Leu Leu Cys  
   65                                  70                                  75                                  80  
 Ala Ser Lys Asp Phe Ser Trp Trp Arg His Ser Leu Ile Thr Val Ser  
                                   85                                  90                                  95  
 Ile Leu Ala Phe Thr Asn Leu Leu Val Ile Phe Val Pro Thr Ile Arg  
                                   100                                  105                                  110  
 Asp Ile Phe Gly Phe Ile Gly Ala Ser Ala Ala Ser Met Leu Ile Phe  
                                   115                                  120                                  125  
 Ile Leu Pro Ser Ala Phe Tyr Ile Lys Leu Val Lys Lys Glu Pro Met  
                                   130                                  135                                  140  
 Lys Ser Val Gln Lys Ile Gly Ala Leu Phe Phe Leu Leu Ser Gly Val  
   145                                  150                                  155                                  160  
 Leu Val Met Thr Gly Ser Met Ala Leu Ile Val Leu Asp Trp Val His  
                                   165                                  170                                  175  
 Asn Ala Pro Gly Gly Gly His  
                                   180

<210> 1050  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<220>

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1050

Pro Gly Pro Pro Leu Ser Phe Phe Xaa Phe Phe Phe Phe Phe Phe  
 1 5 10 15

Phe Phe Phe Phe Phe Phe Phe Lys His Cys Ile Gln Val Ser Leu  
 20 25 30

&lt;210&gt; 1051

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1051

Met Asn His Cys Cys Ser Ser Gln Arg Phe Leu Asn Ile Leu Ser Phe  
 1 5 10 15

Cys Ile Ser Pro Pro Phe Pro Leu Thr Phe Ile Tyr Leu Ile Met Tyr  
 20 25 30

Leu Phe Ile Tyr Leu Tyr Thr Phe Ala Pro Phe Ser Thr Asn Thr Lys  
 35 40 45

Gln Ser Lys Lys Lys Xaa Tyr Ile Tyr Ile Ser Val Tyr Val Leu  
 50 55 60

&lt;210&gt; 1052

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1052

Met Asn His Cys Cys Ser Ser Gln Arg Phe Leu Asn Ile Leu Ser Phe  
 1 5 10 15

Cys Ile Ser Pro Pro Phe Pro Leu Thr Phe Ile Tyr Leu Ile Met Tyr  
 20 25 30

Leu Phe Ile Tyr Leu Tyr Thr Phe Ala Pro Phe Ser Thr Asn Thr Lys  
 35 40 45

Gln Ser Lys Lys Lys Lys Tyr Ile Tyr Ile Ser Val Tyr Val Leu  
 50 55 60

&lt;210&gt; 1053

&lt;211&gt; 75

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1053  
 Ala Asp Asn Asn Phe Thr Gln Glu Xaa Ala Met Thr Met Ile Thr Pro  
   1                  5                  10                  15  
 Ser Ser Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr  
           20                  25                  30  
 Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn  
           35                  40                  45  
 Ser Ala Arg Asp Asn Gln Phe Ile Leu Leu Asn Trp His Ile Leu Asn  
   50                  55                  60  
 His Asp Ser Gln Gln Leu Gly Asn Ile Phe Phe  
   65                  70                  75

<210> 1054  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (102)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1054  
 Cys Gly Val Phe Trp Leu Leu Ser Leu Leu Cys Cys Ile Lys Glu Gln  
   1                  5                  10                  15  
 Gln Phe Glu Gln Val Val Ala Leu Leu Leu Gln Ser Ile Arg Xaa Cys  
           20                  25                  30  
 Gln Asp Arg Ala Leu Leu Val Asn Asn Ala Tyr Gln Gly Leu Ala Ser  
   35                  40                  45



Leu Val Lys Val Ser Glu Leu Ala Ala Phe Lys Val Val Val Gln Glu  
 50 55 60

Glu Gly Gly Ser Gly Leu Ser Leu Ile Lys Glu Thr Tyr Gln Xaa His  
 65 70 75 80

Arg Gly Arg Thr Arg Arg Trp Trp Glu Asn Val Gly Met Leu Leu Val  
 85 90 95

Pro Pro Gly Phe Leu Xaa Arg Arg Ser Cys Arg Ser Trp Cys Xaa Val  
 100 105 110

Val

<210> 1055  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 1055  
 Ile Leu  
 1

<210> 1056  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<400> 1056  
 Met Ala Glu Ala Ser Cys Gly Val Phe Trp Leu Leu Ser Leu Leu Cys  
 1 5 10 15

Cys Ile Lys Glu Gln Gln Phe Glu Gln Val Val Ala Leu Leu Leu Gln  
 20 25 30

Ser Ile Arg Leu Cys Gln Asp Arg Ala Leu Leu Val Asn Asn Ala Tyr  
 35 40 45

Gln Gly Leu Ala Ser Leu Val Lys Val Ser Glu Leu Ala Ala Phe Lys  
 50 55 60

Val Val Val Gln Glu Glu Gly Gly Ser Gly Leu Ser Leu Ile Lys Glu  
 65 70 75 80

Thr Tyr Gln Leu His Arg Asp Asp Pro Glu Val Val Glu Asn Val Gly  
 85 90 95

Met Leu Leu Val His Leu Ala Ser Tyr Glu Glu Ile Leu Pro Glu Leu  
 100 105 110

Val Ser Ser Ser Met Lys Ala Leu Leu Gln Glu Ile Lys Glu Arg Phe  
 115 120 125

Thr Ser Ser Leu Glu Leu Val Ser Cys Val Glu Lys Val Leu Leu Arg

130

135

140

Leu Glu Ala Ala Thr Ser Pro Ser Pro Leu Gly Gly Glu Ala Ala Gln  
 145 150 155 160

Pro

&lt;210&gt; 1057

&lt;211&gt; 491

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1057

Ala Ala Arg Val Gly Arg His Gly Arg Arg Arg Arg Ser Ala Ala Met  
 1 5 10 15

Ala Gly Arg Gly Gly Ser Ala Leu Leu Ala Leu Cys Gly Ala Leu Ala  
 20 25 30

Ala Cys Gly Trp Leu Leu Gly Ala Glu Xaa Xaa Xaa Pro Gly Ala Pro  
 35 40 45

Ala Ala Gly Met Arg Arg Arg Arg Arg Leu Gln Gln Glu Asp Gly Ile  
 50 55 60

Ser Phe Glu Tyr His Arg Tyr Pro Glu Leu Arg Glu Ala Leu Val Ser  
 65 70 75 80

Val Trp Leu Gln Cys Thr Ala Ile Ser Arg Ile Tyr Thr Val Gly Arg  
 85 90 95

Ser Phe Glu Gly Arg Glu Leu Leu Val Ile Glu Leu Ser Asp Asn Pro  
 100 105 110

Gly Val His Glu Pro Gly Glu Pro Glu Phe Lys Tyr Ile Gly Asn Met  
 115 120 125

His Gly Asn Glu Ala Val Gly Arg Glu Leu Leu Ile Phe Leu Ala Gln  
 130 135 140

Tyr Leu Cys Asn Glu Tyr Gln Lys Gly Asn Glu Thr Ile Val Asn Leu  
 145 150 155 160

Ile His Ser Thr Arg Ile His Ile Met Pro Ser Leu Asn Pro Asp Gly  
 165 170 175  
 Phe Glu Lys Ala Ala Ser Gln Pro Gly Glu Leu Lys Asp Trp Phe Val  
 180 185 190  
 Gly Arg Ser Asn Ala Gln Gly Ile Asp Leu Asn Arg Asn Phe Pro Asp  
 195 200 205  
 Leu Asp Arg Ile Val Tyr Val Asn Glu Lys Glu Gly Gly Pro Asn Asn  
 210 215 220  
 His Leu Leu Lys Asn Met Lys Lys Ile Val Asp Gln Asn Thr Lys Leu  
 225 230 235 240  
 Ala Pro Glu Thr Lys Ala Val Ile His Trp Ile Met Asp Ile Pro Phe  
 245 250 255  
 Val Leu Ser Ala Asn Leu His Gly Gly Asp Leu Val Ala Asn Tyr Pro  
 260 265 270  
 Tyr Asp Glu Thr Arg Ser Gly Ser Ala His Glu Tyr Ser Ser Ser Pro  
 275 280 285  
 Asp Asp Ala Ile Phe Gln Ser Leu Ala Arg Ala Tyr Ser Ser Phe Asn  
 290 295 300  
 Pro Ala Met Ser Asp Pro Asn Arg Pro Pro Cys Arg Lys Asn Asp Asp  
 305 310 315 320  
 Asp Ser Ser Phe Val Asp Gly Thr Thr Asn Gly Gly Ala Trp Tyr Ser  
 325 330 335  
 Val Pro Gly Gly Met Gln Asp Phe Asn Tyr Leu Ser Ser Asn Cys Phe  
 340 345 350  
 Glu Ile Thr Val Glu Leu Ser Cys Glu Lys Phe Pro Pro Glu Glu Thr  
 355 360 365  
 Leu Lys Thr Tyr Trp Glu Asp Asn Lys Asn Ser Leu Ile Ser Tyr Leu  
 370 375 380  
 Glu Gln Ile His Arg Gly Val Lys Gly Phe Val Arg Asp Leu Gln Gly  
 385 390 395 400  
 Asn Pro Ile Ala Asn Ala Thr Ile Ser Val Glu Gly Ile Asp His Asp  
 405 410 415  
 Val Thr Ser Ala Lys Asp Gly Asp Tyr Trp Arg Leu Leu Ile Pro Gly  
 420 425 430  
 Asn Tyr Lys Leu Thr Ala Ser Ala Pro Gly Tyr Leu Ala Ile Thr Lys  
 435 440 445  
 Lys Val Ala Val Pro Tyr Ser Pro Ala Ala Gly Val Asp Phe Glu Leu  
 450 455 460  
 Glu Ser Phe Ser Glu Arg Lys Glu Glu Glu Lys Glu Glu Leu Met Glu  
 465 470 475 480

568.

Arg Glu Lys Ser Ser Leu Ser Val Pro Val Leu Val Cys Leu Cys Cys  
 1 5 10 15

Tyr Asn Arg Ile  
 20

<210> 1060

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1060

Leu Val Pro Leu Val Phe Ser Leu Leu Val Gln Ser Cys Lys Gln Val  
 1 5 10 15

Tyr Arg Ser Ile Ala Met Lys Phe Val Pro Cys Leu Leu Leu Val Thr  
 20 25 30

Leu Ser Cys Leu Gly Thr Leu Gly Gln Ala Pro Arg Gln Lys Gln Gly  
 35 40 45

Ser Thr Gly Glu Glu Phe His Phe Gln Thr Gly Gly Arg Asp Ser Cys  
 50 55 60

Thr Met Arg Pro Ser Ser Leu Gly Gln Gly Ala Gly Glu Val Trp Leu  
 65 70 75 80

Arg Val Asp Cys Arg Asn Thr Asp Gln Thr Tyr Trp Cys Glu Tyr Arg  
 85 90 95

Gly Gln Pro Ser Met Cys Gln Ala Phe Ala Ala Asp Pro Lys Ser Tyr  
 100 105 110

Trp Asn Gln Ala Leu Gln Glu Leu Arg Arg Leu His His Ala Cys Gln  
 115 120 125

Gly Ala Pro Val Leu Arg Pro Ser Val Cys Arg Glu Ala Gly Pro Gln  
 130 135 140

Ala His Met Gln Gln Val Thr Ser Ser Leu Lys Gly Ser Pro Glu Pro  
 145 150 155 160

Asn Gln Gln Pro Glu Ala Gly Thr Pro Ser Leu Arg Pro Lys Ala Thr  
 165 170 175

Val Lys Leu Thr Glu Ala Thr Gln Leu Gly Lys Asp Ser Met Glu Glu  
 180 185 190

Leu Gly Lys Ala Lys Pro Thr Thr Arg Pro Thr Ala Lys Pro Thr Gln  
 195 200 205

Pro Gly Pro Arg Pro Gly Gly Asn Glu Glu Ala Lys Lys Lys Ala Trp  
 210 215 220

Glu His Cys Trp Lys Pro Phe Gln Ala Leu Cys Ala Phe Leu Ile Ser  
 225 230 235 240

Phe Phe Arg Gly

<210> 1061  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<400> 1061  
 Met Arg Leu Ala Ser Ser Leu Ser Val Phe Pro Leu Leu Pro Leu Thr  
 1 5 10 15  
 Cys Gly His Ser Leu Ala Leu Leu Pro Ser Ser Ile Gly Gln His Ser  
 20 25 30  
 Glu Thr Phe Thr Arg Cys Arg Pro Leu Thr Phe Pro Val Phe Arg Thr  
 35 40 45  
 Ile Asn Gln Val Asn Pro Tyr Lys Ser Pro Ser Leu Trp Tyr Ser Val  
 50 55 60  
 Ile Ala Thr Gln Thr Asp  
 65 70

<210> 1062  
 <211> 304  
 <212> PRT  
 <213> Homo sapiens

<400> 1062  
 Thr Cys Pro Leu Leu Arg Asn Ser Ser His Ala Glu Pro Ala His Arg  
 1 5 10 15  
 Gln Asp Gly Asp Leu Ala Leu Thr Pro Cys Leu Gly Pro Gly Leu Gly  
 20 25 30  
 Asn Pro Gly Arg Val Arg Gln Lys Ala Gly Asn Arg Ser Ser Gly Gly  
 35 40 45  
 Tyr Ser Leu Arg Gly Gln Gln His Leu Gly Pro Leu Leu Leu Ala Thr  
 50 55 60  
 Ala Gly Ala Ala Gly Ala Arg Glu Arg Gly Gln Ala Leu His Gly Val  
 65 70 75 80  
 Glu Met Val Ala Val Arg Ala Asp Val Trp His Val Arg Gly Arg Trp  
 85 90 95  
 Arg Gln Leu Gly His Arg Pro Val Ala Arg Leu His Gln Leu Phe Ala  
 100 105 110  
 Val Val Leu Phe Gln Gln Leu Leu Gln Gly Arg Ser Ile Leu Phe Leu  
 115 120 125  
 Leu Cys Asp Gln Ala His Gln Asp Pro Asn Gly Val Leu Ile Gly Ile  
 130 135 140

Leu Ser Pro Val Gly Arg Val Asp Ser Thr Ala Ser Thr Ser Arg Ala  
 145 150 155 160

Gly Pro Asp Leu Leu Val Arg Arg Ala Val Val Ala Leu Pro Leu Glu  
 165 170 175

Glu Val Ala His Gln Asp Ala Gln Gln Pro His Glu Ala Glu Asp Arg  
 180 185 190

Asp Asp Gly Asp Asp Arg Val Leu Gly Gly Cys Leu Leu Trp Ala Thr  
 195 200 205

Cys Pro Gly Ala Val Pro Arg Leu Pro Cys Leu Thr Thr Ala Ala Gly  
 210 215 220

Pro Cys Cys His Leu His Ala Thr Ser Gly Pro Pro Pro Pro Leu Ile  
 225 230 235 240

Thr Ala Met Ser Thr Gln Arg Cys Pro Gly Thr Trp Leu Thr Trp Asn  
 245 250 255

Ala Gly Asn Pro Pro Arg Pro Lys Pro Pro Arg Pro Ala Val Ser Thr  
 260 265 270

Glu Cys Ile Ser Ser Cys His Ala His Leu Gly Leu Gln Pro Pro Pro  
 275 280 285

Lys Ala Ala Thr Gly Met Gly Leu Ala Trp Ala Gly Ala Pro Cys Ser  
 290 295 300

<210> 1063  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 1063  
 Met Gly Gly Cys Leu Leu Ser Leu Ser Leu Cys Phe Val Pro Val Val  
 1 5 10 15

Arg Leu Ala Ala Ser Val Ala Arg Trp Ala Trp Leu Glu Pro Trp Val  
 20 25 30

Arg Gln Val Ala Gly Gly Asp Arg Glu Arg Leu Arg Gly Lys Trp Trp  
 35 40 45

His Leu Leu Leu  
 50

<210> 1064  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1064

Met Gly Gly Cys Leu Leu Ser Leu Ser Leu Cys Phe Val Pro Val Val  
 1 5 10 15

Arg Leu Ala Ala Ser Val Ala Arg Trp Ala Trp Leu Glu Pro Trp Val  
 20 25 30

Arg Gln Val Ala Gly Gly Asp Arg Glu Arg Leu Arg Gly Lys Trp Trp  
 35 40 45

His Leu Leu Leu  
 50

&lt;210&gt; 1065

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1065

Asp Leu Ser Gly Gly Glu Trp Asn Val Thr Thr Arg Thr Arg Leu Trp  
 1 5 10 15

Glu Ile Gln Pro His Leu Cys Phe Val Met Ile Leu Lys Leu Asp Phe  
 20 25 30

Ser Cys Arg Asp Phe Leu Ser Ile Leu Pro Gly Val Leu Thr Tyr Ser  
 35 40 45

Leu Pro Val Lys Arg Phe Lys Lys Lys Asn  
 50 55

&lt;210&gt; 1066

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1066

Cys Phe Phe Gln Leu Ser Pro Glu Glu Val Ser Trp Cys Pro Asn Val  
 1 5 10 15

Gly Ser Ser Phe Asp  
 20

&lt;210&gt; 1067

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1067



Met Gly Lys Leu Xaa Leu Thr Leu Leu Leu Cys Leu Leu Gln Leu Leu  
 1 5 10 15

Pro Pro Glu Val Tyr Tyr Ser Arg Trp Gly Ala Asn Met Met Ala Gln  
 20 25 30

Thr Pro Leu Asn Pro  
 35

<210> 1068

<211> 62

<212> PRT

<213> Homo sapiens

<400> 1068

Met Gly Lys Leu Thr Leu Thr Leu Leu Leu Cys Leu Leu Gln Leu Leu  
 1 5 10 15

Pro Pro Glu Val Tyr Tyr Ser Arg Trp Gly Ala Asn Met Met Ala Gln  
 20 25 30

Thr Pro Leu Asn Ser Met Arg Ser Pro Trp Pro Met Glu Ile Leu Leu  
 35 40 45

Phe Phe Pro Leu Phe Ser Ser Ser Val Phe Ile Gly Ser Ala  
 50 55 60

<210> 1069

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1069

Met Ser Leu Asp Ser Leu Val Leu Val Lys Ala Leu Phe Cys Phe Thr  
 1 5 10 15

Phe Val Val Gln Ile Thr Leu Ser Asn Ile Ser Ser Thr Asn Val Ser  
 20 25 30

Ile Leu Val Phe Val His Thr Ala Ile Thr Ser Pro Leu Gln Thr Phe  
 35 40 45

Gln Phe Trp His Tyr Glu Glu Val Ala Val Asn Leu Lys Tyr Leu  
 50 55 60

<210> 1070

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1070

Met Ser Leu Asp Ser Leu Val Leu Val Lys Ala Leu Phe Cys Phe Thr  
 1 5 10 15

Phe Val Val Gln Ile Thr Leu Ser Asn Ile Ser Ser Thr Asn Val Ser  
                   20                  25                  30

Ile Leu Val Phe Val His Thr Ala Ile Thr Ser Pro Leu Gln Thr Phe  
                   35                  40                  45

Gln Phe Trp His Tyr Glu Glu Val Ala Val Asn Leu Lys Tyr Leu  
                   50                  55                  60

<210> 1071  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 1071  
 Leu Gln  
   1

<210> 1072  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 1072  
 Leu Gln  
   1

<210> 1073  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1073  
 Met Gly Leu Arg Gln Gln Leu Glu Leu Lys Leu Lys Leu Ile Leu Leu  
   1                  5                  10                  15

Leu Cys Val Phe Trp Phe Lys Ser Cys Thr Tyr Ile Leu Ala Leu Leu  
                   20                  25                  30

Phe Leu Tyr Ser Gly Xaa Met Trp Val Xaa His Xaa Gly Arg Lys Ile  
                   35                                  40                                  45

<210> 1074

<211> 261

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (237)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (239)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (240)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (253)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1074

Thr Val Ala Asp Val Arg Arg Pro Phe Ala Gln Val Asn Val Leu Ala  
   1                                  5                                  10                                  15

Glu Glu Val Leu Ile Tyr Arg Ile Val Leu Asn Asp Ile Val Gly Asp  
                   20                                  25                                  30

Val Val Gln Asp His Gln Val Arg Leu Arg Arg Lys Asp Asp Ala Val  
                   35                                  40                                  45

Ile Arg Gln Leu Glu Ala Thr Met Leu Val Gly Arg Lys His Arg His  
                   50                                  55                                  60

Gly Asp Val Leu Val Arg Glu Thr Thr Val Ser Asp Ala Arg Pro Glu  
 65 70 75 80  
 Asp Arg Val His Phe Arg His Val Cys Xaa Pro Gln Xaa Lys Arg Val  
 85 90 95  
 Ser Leu Leu Asp Val Val Ile Ala Ala His Arg Leu Ile His Thr Lys  
 100 105 110  
 Gly Thr His Lys Ala Asn Tyr Cys Arg Arg His Thr Val Thr Arg Val  
 115 120 125  
 Arg Val Asp Val Val Arg Thr Glu Ala Arg Phe Lys Gln Leu Gly Arg  
 130 135 140  
 Gly Ile Thr Phe Pro Asp Ser Pro Leu Thr Arg Thr Glu His Thr Asp  
 145 150 155 160  
 Arg Phe Arg Pro Phe Phe Phe Gln Xaa Gly Phe Glu Phe Leu Phe His  
 165 170 175  
 His Ile Glu Gly Leu Ile Pro Gly Asp Trp Gly Lys Phe Ala Phe Phe  
 180 185 190  
 Val Ile Phe Thr Val Phe His Thr Gln Gln Arg Leu Arg Gln Thr Val  
 195 200 205  
 Phe Thr Val His Asp Phe Gly Gln Glu Ile Ala Leu Asn Ala Val Gln  
 210 215 220  
 Ala Thr Val Asn Arg Cys Val Arg Val Ala Leu Thr Xaa Gln Xaa Xaa  
 225 230 235 240  
 Val Pro Ala Ala Phe Arg Pro Glu Arg Arg Asn Gln Xaa Arg Arg Thr  
 245 250 255  
 Thr Gln Phe Ala Ile  
 260

<210> 1075  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 1075  
 Phe Tyr Thr Asn Val Thr Tyr Lys Ser Asp Ala Thr Thr Leu Arg Phe  
 1 5 10 15  
 Pro Gly Arg Cys Asp Phe Ser Ser Ala Trp Glu Val Asp Leu His Gln  
 20 25 30  
 Pro Phe Gln Cys Ser Ala His Pro Gly Ala Gly Ile Thr Ala Pro His  
 35 40 45  
 Leu Leu Gly Glu Lys Pro Gly Arg Pro Glu Glu Val Gly  
 50 55 60

<210> 1076  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 1076  
 Met Gly Leu Arg Gln Gln Leu Glu Leu Lys Leu Lys Leu Ile Leu Leu  
           1                  5                  10                  15  
 Leu Cys Val Phe Trp Phe Lys Ser Cys Thr Tyr Ile Leu Ala Leu Leu  
                   20                  25                  30  
 Phe Ser Val Val Pro Glu Arg Trp Trp Val Ala Ile Leu Val Gly Lys  
                   35                  40                  45  
 Ser Glu Phe Ser Tyr Leu  
           50

<210> 1077  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 1077  
 Gln Tyr Leu Leu Ile  
           1                  5

<210> 1078  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1078  
 Met Xaa Ala Ser Gln Tyr Ile Leu Phe Phe Leu Gln Xaa Leu Gly Xaa  
           1                  5                  10                  15

Lys Leu Gln Phe Gln Gly Ile Ser Ser Gln Gln Gln Val Glu  
                   20                  25                  30

&lt;210&gt; 1079

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1079

Met Arg Ala Ser Gln Tyr Ile Leu Phe Phe Leu Gln Phe Leu Gly Phe  
 1 5 10 15

Lys Leu Gln Phe Gln Gly Ile Ser Ser Gln Gln Gln Val Glu  
 20 25 30

&lt;210&gt; 1080

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1080

Met Phe Gly Cys Pro Phe Cys  
 1 5

&lt;210&gt; 1081

&lt;211&gt; 261

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1081

Gly Ile Phe Arg Ser Leu Arg Val Leu Phe Pro Leu Phe Ser Val Gly  
 1 5 10 15

Arg Pro Gln Phe Ala Arg Ser Leu Ser Ala Ala Pro Gln Leu Ser Asp  
 20 25 30

Thr Ala Asp Thr Met Gly Phe Gly Asp Leu Lys Ser Pro Ala Gly Leu  
 35 40 45

Gln Val Leu Asn Asp Tyr Leu Ala Asp Lys Ser Tyr Ile Glu Gly Tyr  
 50 55 60

Val Pro Ser Gln Ala Asp Val Ala Val Phe Glu Ala Val Ser Ser Pro  
 65 70 75 80

Pro Pro Ala Asp Leu Cys His Ala Leu Arg Trp Tyr Asn His Ile Lys  
 85 90 95

Ser Tyr Glu Lys Glu Lys Ala Ser Leu Pro Gly Val Lys Lys Ala Leu  
 100 105 110

Gly Lys Tyr Gly Pro Ala Asp Val Glu Asp Thr Thr Gly Ser Gly Ala  
 115 120 125

Thr Asp Ser Lys Asp Asp Asp Asp Ile Asp Leu Phe Gly Ser Asp Asp  
 130 135 140

MISSING AT THE TIME OF PUBLICATION

Gly Gly Glu Arg His Leu His Arg Thr His Pro Arg Leu Pro Gly His  
 1 5 10 15  
 Arg Phe Leu Arg Leu His Arg Ala Pro Arg Val Pro His Val Cys Gly  
 20 25 30  
 Val Arg Ala His Gly Ala Gly Val Pro His Leu Val Ser Gly Gly Asp  
 35 40 45  
 Glu Val Ser Pro Gly Gly Ala Gly Pro Val Ser His Ser Ala Glu Glu  
 50 55 60  
 Gln Pro Val His Gln Val Asp Arg Leu Cys Gly Ala Cys Pro Gly Gln  
 65 70 75 80  
 Arg Val Phe Leu Cys Pro Gly Glu Pro Gly Ala Lys Ser Gly Arg His  
 85 90 95  
 Leu Ser Gly Gly Val Pro Pro Tyr Thr Glu Cys Asp His Ala Gln Pro  
 100 105 110  
 Leu Ala Arg Pro Gly Ala Val Glu Ser Cys Asn His Glu Val Cys Ala  
 115 120 125  
 Gln Thr Gly Glu Thr Val Gln Pro Leu Met Ala Arg Arg  
 130 135 140

<210> 1085  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 1085  
 Met Ser Met Lys Cys Tyr Leu Val Val Leu Ile Cys Ile Pro Leu Met  
 1 5 10 15  
 Ala Thr Asp Ala Glu Cys Leu Phe Leu Cys Leu Arg Ala Met Arg Ile  
 20 25 30  
 Ser Leu Glu Lys Gly Leu Ser Arg Ser Phe Ala Tyr Phe  
 35 40 45

<210> 1086  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1086

Xaa Tyr Xaa Ser Cys Arg Lys Xaa Tyr Leu Thr Tyr Gly Xaa Asn Ser  
 1 5 10 15

Arg Val Asp Pro Arg Val Arg His Val Cys Gly Val Arg Ala His Gly  
 20 25 30

Ala Gly Val Pro His Leu Val Ser Gly Gly Asp Glu Val Ser Pro Gly  
 35 40 45

Gly Ala Gly Pro Val Ser His Ser Ala Glu Glu Gln Pro Val His Gln  
 50 55 60

Val Asp Arg Leu Cys Gly Ala Cys Pro Gly Gln Arg Val Phe Leu Cys  
 65 70 75 80

Pro Gly Glu Pro Gly Ala Lys Ser Gly Arg His Leu Ser Gly Gly Val  
 85 90 95

Pro Pro Tyr Thr Glu Cys Asp His Ala Gln Pro Leu Ala Arg Pro Gly  
 100 105 110

Ala Val Glu Ser Cys Asn His Glu Val Cys Ala Gln Thr Gly Glu Thr  
 115 120 125

Val Gln Pro Leu Met Ala Arg Arg  
 130 135

&lt;210&gt; 1087

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1087

Met Ser Met Lys Cys Tyr Leu Val Val Leu Ile Cys Ile Pro Leu Met  
 1 5 10 15

Ala Thr Asp Ala Glu Cys Leu Phe Leu Cys Leu Arg Ala Met Arg Ile  
 20 25 30

Ser Leu Glu Lys Gly Leu Ser Arg Ser Phe Ala Tyr Phe  
 35 40 45

&lt;210&gt; 1088

&lt;211&gt; 177

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (90)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (173)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1088  
 Leu Asp Ile Lys Val Leu Gln Val Pro Thr Arg Leu Arg Ser Pro Ala  
           1                  5                  10                  15  
 Gly Phe Thr Gln Trp Ile Gln His Trp Gly Ser Arg Trp Ser Cys Leu  
                   20                  25                  30  
 Pro Val Pro Arg Cys Ala Pro Ala Leu Leu Ser Pro Trp Val Val Asp  
           35                  40                  45  
 Gly Thr Gly Arg Cys Gly Ala Gly Gly Gly Ala Pro Trp Gly Gly Ser  
           50                  55                  60  
 Gly Arg Thr Gly Ala His Gly Gly Trp Gly Glu Gly Gln Ala Trp Arg  
           65                  70                  75                  80  
 Ala Ala Gly Pro Glu Pro Cys Pro Ala Xaa Arg Gln Leu Arg Pro Ser  
                   85                  90                  95  
 Glu Lys Ser Ser Thr Ala Ala Ala Gly Pro Gly Ala Lys Ala Leu Thr  
           100                  105                  110  
 Ala Trp Gly Arg Pro Ala Ala Leu Ser Gly Ala Pro Pro Ser Pro Arg  
           115                  120                  125  
 Pro Pro Gly Thr His Ser Gly Pro Gln Ala Leu Arg Ala Ala Pro Val  
           130                  135                  140  
 Pro Ala Arg Pro Ser Pro Ser Ala Pro Pro Arg Lys Leu Arg Glu Leu  
           145                  150                  155                  160  
 Ala Pro Ala Leu Ala Ser Pro Glu Arg Gly Ser Tyr Xaa Ala Ala Ala  
                   165                  170                  175  
 Gly

<210> 1089  
 <211> 414  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (410)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1089

Met Glu Arg Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val Val  
1 5 10 15

Cys Leu Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu Val Ala  
20 25 30

Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly Arg Gln Val  
35 40 45

Gly Val Lys Gly Thr Asp Arg Leu Val Asn Val Phe Leu Gly Ile Pro  
50 55 60

Phe Ala Gln Pro Pro Leu Gly Pro Asp Arg Phe Ser Ala Pro His Pro  
65 70 75 80

Ala Gln Pro Trp Glu Gly Val Arg Asp Ala Ser Thr Ala Pro Pro Met  
85 90 95

Cys Leu Gln Asp Val Glu Ser Met Asn Ser Ser Arg Phe Val Leu Asn  
100 105 110

Gly Lys Gln Gln Ile Phe Ser Val Ser Glu Asp Cys Leu Val Leu Asn  
115 120 125

Val Tyr Ser Pro Ala Glu Val Pro Ala Gly Ser Gly Arg Pro Val Met  
130 135 140

Val Trp Val His Gly Gly Ala Leu Ile Thr Gly Ala Ala Thr Ser Tyr  
145 150 155 160

Asp Gly Ser Ala Leu Ala Ala Tyr Gly Asp Val Val Val Xaa Thr Val  
165 170 175

Gln Tyr Arg Leu Gly Val Leu Gly Phe Phe Ser Thr Gly Asp Glu His  
180 185 190

Ala Pro Gly Asn Gln Gly Phe Leu Asp Val Val Ala Ala Leu Arg Trp  
195 200 205

Val Gln Glu Asn Ile Ala Pro Phe Gly Gly Asp Leu Asn Cys Val Thr  
210 215 220

Val Phe Gly Gly Ser Ala Gly Gly Ser Ile Ile Ser Gly Leu Val Leu  
225 230 235 240

Ser Pro Val Ala Ala Gly Leu Phe His Arg Ala Ile Thr Gln Ser Gly  
245 250 255

Val Ile Thr Thr Pro Gly Ile Ile Asp Ser His Pro Trp Pro Leu Ala  
260 265 270

Gln Lys Ile Ala Asn Thr Leu Ala Cys Ser Ser Ser Ser Pro Ala Glu

275                      280                      285  
 Met Val Gln Cys Leu Gln Gln Lys Glu Gly Glu Glu Leu Val Leu Ser  
     290                      295                      300  
 Lys Lys Leu Lys Asn Thr Ile Tyr Pro Leu Thr Val Asp Gly Thr Val  
     305                      310                      315                      320  
 Phe Pro Lys Ser Pro Lys Glu Leu Leu Lys Glu Lys Pro Phe His Ser  
                     325                      330                      335  
 Val Pro Phe Leu Met Gly Val Asn Asn His Glu Phe Ser Trp Leu Ile  
                     340                      345                      350  
 Pro Arg Gly Trp Gly Leu Leu Asp Thr Met Glu Gln Met Ser Arg Glu  
                     355                      360                      365  
 Asp Met Leu Ala Ile Ser Thr Pro Val Leu Thr Ser Leu Asp Val Pro  
                     370                      375                      380  
 Pro Glu Met Met Pro Thr Val Ile Asp Glu Tyr Leu Gly Ser Asn Ser  
     385                      390                      395                      400  
 Asp Ala Gln Ala Lys Cys Gln Ala Phe Xaa Gly Ile His Gly  
                     405                      410

<210> 1090  
 <211> 571  
 <212> PRT  
 <213> Homo sapiens

<400> 1090  
 Met Glu Arg Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val Val  
     1                      5                      10                      15  
 Cys Leu Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu Val Ala  
                     20                      25                      30  
 Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly Arg Gln Val  
                     35                      40                      45  
 Gly Val Lys Gly Thr Asp Arg Leu Val Asn Val Phe Leu Gly Ile Pro  
                     50                      55                      60  
 Phe Ala Gln Pro Pro Leu Gly Pro Asp Arg Phe Ser Ala Pro His Pro  
                     65                      70                      75                      80  
 Ala Gln Pro Trp Glu Gly Val Arg Asp Ala Ser Thr Ala Pro Pro Met  
                     85                      90                      95  
 Cys Leu Gln Asp Val Glu Ser Met Asn Ser Ser Arg Phe Val Leu Asn  
                     100                      105                      110  
 Gly Lys Gln Gln Ile Phe Ser Val Ser Glu Asp Cys Leu Val Leu Asn  
                     115                      120                      125  
 Val Tyr Ser Pro Ala Glu Val Pro Ala Gly Ser Gly Arg Pro Val Met  
                     130                      135                      140

Val Trp Val His Gly Gly Ala Leu Ile Thr Gly Ala Ala Thr Ser Tyr  
 145 150 155 160  
 Asp Gly Ser Ala Leu Ala Ala Tyr Gly Asp Val Val Val Thr Val  
 165 170 175  
 Gln Tyr Arg Leu Gly Val Leu Gly Phe Phe Ser Thr Gly Asp Glu His  
 180 185 190  
 Ala Pro Gly Asn Gln Gly Phe Leu Asp Val Val Ala Ala Leu Arg Trp  
 195 200 205  
 Val Gln Glu Asn Ile Ala Pro Phe Gly Gly Asp Leu Asn Cys Val Thr  
 210 215 220  
 Val Phe Gly Gly Ser Ala Gly Gly Ser Ile Ile Ser Gly Leu Val Leu  
 225 230 235 240  
 Ser Pro Val Ala Ala Gly Leu Phe His Arg Ala Ile Thr Gln Ser Gly  
 245 250 255  
 Val Ile Thr Thr Pro Gly Ile Ile Asp Ser His Pro Trp Pro Leu Ala  
 260 265 270  
 Gln Lys Ile Ala Asn Thr Leu Ala Cys Ser Ser Ser Ser Pro Ala Glu  
 275 280 285  
 Met Val Gln Cys Leu Gln Gln Lys Glu Gly Glu Glu Leu Val Leu Ser  
 290 295 300  
 Lys Lys Leu Lys Asn Thr Ile Tyr Pro Leu Thr Val Asp Gly Thr Val  
 305 310 315 320  
 Phe Pro Lys Ser Pro Lys Glu Leu Leu Lys Glu Lys Pro Phe His Ser  
 325 330 335  
 Val Pro Phe Leu Met Gly Val Asn Asn His Glu Phe Ser Trp Leu Ile  
 340 345 350  
 Pro Arg Gly Trp Gly Leu Leu Asp Thr Met Glu Gln Met Ser Arg Glu  
 355 360 365  
 Asp Met Leu Ala Ile Ser Thr Pro Val Leu Thr Ser Leu Asp Val Pro  
 370 375 380  
 Pro Glu Met Met Pro Thr Val Ile Asp Glu Tyr Leu Gly Ser Asn Ser  
 385 390 395 400  
 Asp Ala Gln Ala Lys Cys Gln Ala Phe Gln Glu Phe Met Gly Asp Val  
 405 410 415  
 Phe Ile Asn Val Pro Thr Val Ser Phe Ser Arg Tyr Leu Arg Asp Ser  
 420 425 430  
 Gly Ser Pro Val Phe Phe Tyr Glu Phe Gln His Arg Pro Ser Ser Phe  
 435 440 445  
 Ala Lys Ile Lys Pro Ala Trp Val Lys Ala Asp His Gly Ala Glu Gly  
 450 455 460

Ala Phe Val Phe Gly Gly Pro Phe Leu Met Asp Glu Ser Ser Arg Leu  
 465 470 475 480

Ala Phe Pro Glu Ala Thr Glu Glu Glu Lys Gln Leu Ser Leu Thr Met  
 485 490 495

Met Ala Gln Trp Thr His Phe Ala Arg Thr Gly Asp Pro Asn Ser Lys  
 500 505 510

Ala Leu Pro Pro Trp Pro Gln Phe Asn Gln Ala Glu Gln Tyr Leu Glu  
 515 520 525

Ile Asn Pro Val Pro Arg Ala Gly Gln Lys Phe Arg Glu Ala Trp Met  
 530 535 540

Gln Phe Trp Ser Glu Thr Leu Pro Ser Lys Ile Gln Gln Trp His Gln  
 545 550 555 560

Lys Gln Lys Asn Arg Lys Ala Gln Glu Asp Leu  
 565 570

<210> 1091  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (68)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1091  
 Met Ile Ser Ser Leu Leu Ser Lys Ala Val Leu Ser Leu Trp Ile Ser  
 1 5 10 15

Val Phe Ser Trp Asn Val Leu Gly Cys Lys Lys Leu Lys Thr Ile Ile  
 20 25 30

Leu Gln Cys Phe Lys Glu Ala Ser Asp Leu Val Leu Arg Glu Arg Tyr  
 35 40 45

Leu Gly Val Val Gln Ala Leu Ser Asp Asp Phe Ser Phe Cys Phe Thr  
 50 55 60

Ile Leu Ser Xaa  
 65

<210> 1092  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1092  
 Val Ser Lys Leu Phe Asp Leu Val Arg Val Ala Leu Trp Glu Ser Thr  
 1 5 10 15

Phe Leu Ser Leu Ser Leu Ser Val Pro Ser Val Cys Ala Met Phe Arg  
                   20                  25                  30  
 Ser Ser Glu Glu Ser Lys Ile Ser Ser Glu Phe Lys Ile Ile Phe Val  
                   35                  40                  45  
 Phe Leu Leu Phe Asn Val Met Glu  
                   50                  55

<210> 1093  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 1093  
 Met Ile Ser Ser Leu Leu Ser Lys Ala Val Leu Ser Leu Trp Ile Ser  
   1                  5                  10                  15  
 Val Phe Ser Trp Asn Val Leu Gly Cys Lys Lys Leu Lys Thr Ile Ile  
                   20                  25                  30  
 Leu Gln Cys Phe Lys Glu Ala Ser Asp Leu Phe Leu Arg Glu Arg Tyr  
                   35                  40                  45  
 Leu Gly Val Val Gln Ser Leu Ser Asp Asp Phe Phe Phe Leu Leu His  
                   50                  55                  60  
 His Pro  
   65

<210> 1094  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1094  
 Arg Trp Arg Gly Ala Ser Thr Pro His Arg Asp Tyr Leu Ser Xaa Arg  
   1                  5                  10                  15  
 Tyr Cys Ala Cys Gly  
                   20

<210> 1095  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 1095

Trp Gln Ile Leu Leu Ile Ala Leu Leu Leu Ile  
 1 5 10

<210> 1096  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 1096  
 Met Leu Arg Trp Arg Leu Leu Ala Thr Ala Leu Ile Ala Leu Cys Arg  
 1 5 10 15

Arg Ser Ala Ser Ser Val Ala Ser Gly Glu Pro Pro Asp Ser Pro Pro  
 20 25 30

Cys Pro Trp Arg Arg Arg  
 35

<210> 1097  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1097  
 Met Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile Leu Cys Val Arg  
 1 5 10 15

Leu Ala Val Leu Leu Ala Val Thr Leu Thr Val Pro Val Val Leu Phe  
 20 25 30

Pro Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro Gly Lys Ala Phe  
 35 40 45

Ser Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu Leu Xaa Leu Val  
 50 55 60



Asn Val Leu Ala Ser Xaa Xaa Gln Pro Xaa Gly Ile  
 65 70 75

<210> 1098  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1098  
 Met Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile Leu Cys Val Pro  
 1 5 10 15

Pro Gly Arg Ala Ala Arg Gly Asp Pro Xaa Xaa Ala Ser Arg Ala Gly  
 20 25 30

Pro Tyr Pro Xaa Gly Pro Ala Xaa Ala Ala Phe Xaa Arg Gln Xaa Leu  
 35 40 45

Xaa Leu Gly Thr Thr Trp  
 50

<210> 1099  
 <211> 148  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1099  
 Leu Xaa Met Tyr Ser Gln Lys Asp Pro Leu Ile Leu Cys Val Arg Leu  
           1                  5                  10                  15  
 Xaa Val Leu Leu Ala Val Thr Leu Thr Val Pro Val Val Leu Phe Pro  
                   20                  25                  30  
 Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro Gly Lys Ala Phe Ser  
           35                  40                  45  
 Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu Leu Val Leu Val Asn  
           50                  55                  60  
 Val Leu Val Ile Cys Val Pro Thr Ile Arg Asp Ile Phe Gly Val Ile  
           65                  70                  75                  80  
 Gly Ser Thr Ser Ala Pro Ser Leu Ile Phe Ile Leu Pro Ser Ile Phe  
                   85                  90                  95  
 Tyr Leu Arg Ile Val Pro Ser Glu Val Glu Pro Phe Leu Ser Trp Pro  
           100                  105                  110  
 Lys Ile Gln Ala Leu Cys Phe Gly Val Leu Gly Val Leu Phe Met Ala  
           115                  120                  125  
 Val Ser Leu Gly Phe Met Phe Ala Asn Trp Ala Thr Gly Gln Ser Arg  
           130                  135                  140  
 Met Ser Gly His  
 145

<210> 1100  
 <211> 149  
 <212> PRT  
 <213> Homo sapiens

<400> 1100  
 Met Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile Leu Cys Val Arg  
           1                  5                  10                  15  
 Leu Ala Val Leu Leu Ala Val Thr Leu Thr Val Pro Val Val Leu Phe  
           20                  25                  30

Pro Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro Gly Lys Ala Phe  
                   35                                  40                                  45  
 Ser Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu Leu Val Leu Val  
                   50                                  55                                  60  
 Asn Val Leu Val Ile Cys Val Pro Thr Ile Arg Asp Ile Phe Gly Val  
                   65                                  70                                  75                                  80  
 Ile Gly Ser Thr Ser Ala Pro Ser Leu Ile Phe Ile Leu Pro Ser Ile  
                                   85                                  90                                  95  
 Phe Tyr Leu Arg Ile Val Pro Ser Glu Val Glu Pro Phe Leu Ser Trp  
                                   100                                  105                                  110  
 Pro Lys Ile Gln Ala Leu Cys Phe Gly Val Leu Gly Val Leu Phe Met  
                   115                                  120                                  125  
 Ala Val Ser Leu Gly Phe Met Phe Ala Asn Trp Ala Thr Gly Gln Ser  
                   130                                  135                                  140  
 Arg Met Ser Gly His  
 145

<210> 1101  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 1101  
 Met Ile Leu Arg Gly Val Tyr Ser Met Val Pro Ile Tyr Thr His Met  
   1                                  5                                  10                                  15  
 Ile Phe Leu Phe Thr Phe Phe Leu Thr Ile Ser Gly Lys Tyr Phe Lys  
                   20                                  25                                  30  
 Ile Phe Glu Lys His Ser Arg Ile  
                   35                                  40

<210> 1102  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 1102  
 Met Ile Leu Arg Gly Val Tyr Ser Met Val Pro Ile Tyr Thr His Met  
   1                                  5                                  10                                  15  
 Ile Phe Leu Phe Thr Phe Phe Leu Thr Ile Ser Gly Lys Tyr Phe Lys  
                   20                                  25                                  30  
 Ile Phe Glu Lys His Ser Arg Ile  
                   35                                  40

<210> 1103  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1103  
 Met Asn Leu Trp Leu Gly Ala Leu Ile Pro Val Thr Val His Leu Lys  
 1 5 10 15  
 Arg Met Trp Ser His Pro Lys Phe Gln Ala Gln Lys Thr Phe Pro Leu  
 20 25 30  
 Ser Lys Ser Pro Lys Tyr His Pro Val Phe Leu Leu Val Ile Ile Met  
 35 40 45  
 Ala Arg Ser Ser Gln Leu Lys Arg  
 50 55

<210> 1104  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 1104  
 Gln Gly Phe Ile Phe Trp Thr Gln Tyr Asn Ile Gly Tyr Ile Ser Leu  
 1 5 10 15  
 Arg Ser Ile Gly Phe Gln His Lys Ser Leu Pro Ile Arg Lys Ser Lys  
 20 25 30  
 Trp Arg Lys His Gln Ile Ile Ile Ile Thr Gln Gln Lys Cys Gly  
 35 40 45  
 Asp Trp Gln Trp Phe Trp Gly Phe Ile Ser Ser Ile Arg Ala Ser Ala  
 50 55 60  
 Ser His Phe Met Lys Leu Leu Pro Ser Glu Arg Thr Leu Asn Thr Pro  
 65 70 75 80  
 Arg Ser Tyr Cys Ser Phe Phe Leu Asn Gly Ile Leu Lys Asn Trp Leu  
 85 90 95  
 Lys Arg Glu Glu His Ser Lys Tyr Ile Leu  
 100 105

<210> 1105  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1105  
 Met Asn Leu Trp Leu Gly Ala Leu Ile Pro Val Thr Val His Leu Lys  
 1 5 10 15  
 Arg Met Trp Ser His Pro Lys Phe Gln Ala Gln Lys Thr Phe Pro Leu  
 20 25 30

Ser Lys Ser Pro Lys Tyr His Pro Val Phe Leu Leu Val Ile Ile Met  
                   35                  40                  45

Ala Arg Ser Ser Gln Leu Lys Arg  
           50                  55

<210> 1106

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1106

Val Gly Phe Gln Gly Leu Glu Gly Asn Pro Pro Pro Ala Xaa Leu Asn  
   1                  5                  10                  15

Gly Leu Glu Gly Lys Gly Lys Leu Xaa Lys Lys Ala Gln Gly Thr Gly  
                   20                  25                  30

Xaa Lys Ile Ile Phe Trp Pro Lys Glu Ser Lys Thr Pro Ser Gly Ser  
                   35                  40                  45

Pro Lys Pro Ala Lys Ala Ala Asn Ser Lys Ser Lys Glu Ser Asp Glu  
                   50                  55                  60

Pro His His Ser Lys Asn Glu Arg Pro Ala Arg Pro Pro Pro Ile  
   65                  70                  75                  80

Met Thr Asp Gly Glu Asp Ala Asp Tyr Thr His Phe Thr Asn Gln Gln  
                   85                  90                  95

Ser Ser Thr Arg His Phe Ser Lys Ser Glu Ser Ser His Lys Gly Phe  
                   100                  105                  110

His Tyr Lys His  
                   115

<210> 1107

<211> 4

<212> PRT

<213> Homo sapiens

<400> 1107  
Val Leu Arg Asn  
1

<210> 1108  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 1108  
Val Leu Arg Asn  
1

<210> 1109  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 1109  
Met Ser Ser Leu Gly Leu Gln Glu Pro Gln Lys Asn Leu Thr Ser Phe  
1 5 10 15  
Pro Gln Ile Ser Pro Tyr Pro Leu Ser Ile Phe Thr Pro Ile Ile Ile  
20 25 30  
Tyr Phe His Thr Ile Gln Leu Ser Lys Asp Ser Trp Arg Leu Thr Cys  
35 40 45  
Ile Phe Arg Leu Thr Glu  
50

<210> 1110  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 1110  
Thr Thr Met Thr Gly  
1 5

<210> 1111  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 1111  
Met Pro Thr Thr Val Gly Ala Gln Ile Phe Ile Phe Ile Phe Leu Leu  
1 5 10 15  
Cys Thr Leu Phe Phe Leu Pro Phe Tyr Gly Cys Leu Lys Ser Arg Glu  
20 25 30

Lys Gly Arg Leu Val Asn Asp Glu  
           35                  40

<210> 1112  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 1112  
 Met Pro Thr Thr Val Gly Ala Gln Ile Phe Ile Phe Ile Phe Leu Leu  
   1                  5                  10                  15

Cys Thr Leu Phe Phe Leu Pro Phe Tyr Gly Cys Leu Lys Ser Arg Glu  
           20                  25                  30

Lys Gly Arg Leu Val Asn Asp Glu  
           35                  40

<210> 1113  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<400> 1113  
 Val Asp Pro Arg Val Arg Thr Ser Ser Arg Ser Arg Ala Ala Ala Leu  
   1                  5                  10                  15

Phe Glu Cys Phe Leu Met Val Phe Leu Leu Lys Cys Gln Val Asn Asn  
           20                  25                  30

Phe Asn Pro Ile Gln Gln Tyr Ser Leu Phe Pro Leu Lys Ser Ser Gly  
           35                  40                  45

Thr Cys Ser Ile Ser Leu Phe Cys Met Arg Gly Leu Tyr Phe Cys Leu  
           50                  55                  60

Gly Val Val Ile Cys Thr His Ala Ile Leu Leu Lys Pro Ser Cys Leu  
   65                  70                  75                  80

Val Leu Phe Leu Glu Ser Phe Phe Phe Pro Val Leu Met Tyr Ala Gly  
           85                  90                  95

Phe Gly Asn Ser Ser  
           100

<210> 1114  
 <211> 216  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1114

Met Lys Glu Arg Lys Gly Phe Asn Leu Gln Gly Pro Leu Ile Leu Trp  
1 5 10 15

Ser Phe Cys Leu Ala Ile Phe Ser Ile Leu Gly Ala Val Arg Met Trp  
20 25 30

Gly Ile Met Gly Thr Val Leu Leu Thr Gly Gly Leu Lys Gln Thr Val  
35 40 45

Cys Phe Ile Asn Phe Ile Asp Asn Ser Thr Val Lys Phe Trp Ser Trp  
50 55 60

Val Phe Leu Leu Ser Lys Val Ile Glu Leu Gly Asp Thr Ala Phe Ile  
65 70 75 80

Ile Leu Arg Lys Arg Xaa Leu Ile Phe Ile His Trp Tyr His His Ser  
85 90 95

Thr Val Leu Val Tyr Thr Ser Phe Gly Tyr Lys Asn Lys Val Pro Ala  
100 105 110

Gly Gly Trp Phe Val Thr Met Asn Phe Gly Val His Ala Ile Met Tyr  
115 120 125

Thr Tyr Tyr Thr Leu Lys Ala Ala Asn Val Lys Pro Pro Lys Met Leu  
130 135 140

Pro Met Leu Ile Thr Ser Leu Gln Ile Leu Gln Met Phe Val Gly Ala  
145 150 155 160

Ile Val Ser Ile Leu Thr Tyr Ile Trp Arg Gln Asp Gln Gly Cys His  
165 170 175

Thr Thr Met Glu His Leu Phe Trp Ser Phe Ile Leu Tyr Met Thr Tyr  
180 185 190

Phe Ile Leu Phe Ala His Phe Phe Cys Gln Thr Tyr Ile Arg Pro Lys  
195 200 205

Val Lys Ala Lys Thr Lys Ser Gln  
210 215

<210> 1115

<211> 216

<212> PRT

<213> Homo sapiens

<400> 1115

Met Lys Glu Arg Lys Gly Phe Asn Leu Gln Gly Pro Leu Ile Leu Trp  
1 5 10 15

Ser Phe Cys Leu Ala Ile Phe Ser Ile Leu Gly Ala Val Arg Met Trp  
20 25 30

Gly Ile Met Gly Thr Val Leu Leu Thr Gly Gly Leu Lys Gln Thr Val



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<210> 1116
<211> 16
<212> PRT
<213> Homo sapiens
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<400> 1116  
Val Leu Gly Leu Gly Val Val Leu Thr Pro Ile Ile Pro Val Leu Trp  
1 5 10 15

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<210> 1117
<211> 55
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids
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&lt;400&gt; 1117

Asn Asn Leu Cys Phe Ile Ser Pro Phe Thr Ser Met Tyr Trp Leu Ala  
 1 5 10 15

Gln Phe Ile Val Ser Glu Lys Gln Gly Thr His Leu His Xaa Leu Gln  
 20 25 30

Glu Thr Val Leu Pro Phe Asn Leu Lys Thr Arg Lys Leu Asn Phe Asn  
 35 40 45

Arg Asn Leu Leu Ser Met Leu  
 50 55

&lt;210&gt; 1118

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1118

Met His Met Trp Ile Leu Ser Leu His Phe Ile Phe Thr Pro Arg Leu  
 1 5 10 15

Val Leu Cys Glu Val Arg Pro Asn Lys Ile Val Glu Asp Thr Ile Ile  
 20 25 30

&lt;210&gt; 1119

&lt;211&gt; 1

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1119

Ala

1

&lt;210&gt; 1120

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1120

Met Glu Leu Leu Gln Ala Lys Lys Leu Leu Leu Leu Gly Leu Phe  
 1 5 10 15  
 Val Ser Cys Xaa Ser Asn Ile Arg Lys Thr Glu Pro Cys Phe Gly Leu  
 20 25 30  
 Asp Ser Ile Thr Phe Xaa Asp Pro Lys Lys Lys Cys Leu Ser Asn Leu  
 35 40 45  
 Lys Ser Cys  
 50

<210> 1121  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 1121  
 Met Glu Leu Leu Gln Ala Lys Lys Leu Leu Leu Leu Gly Leu Phe  
 1 5 10 15  
 Val Ser Cys Cys Ser Asn Ile Arg Lys Thr Glu Pro Cys Phe Gly Leu  
 20 25 30  
 Asp Ser Ile Thr Phe Arg Asp Pro Lys Lys Lys Cys Leu Cys Asn Leu  
 35 40 45  
 Lys Ser Cys  
 50

<210> 1122  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 1122  
 Tyr Phe  
 1

<210> 1123  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 1123  
 Leu Thr Thr Pro Tyr Gly Gly Leu Cys Lys Gln Ser Thr Arg Gly Ser  
 1 5 10 15  
 Ile Ile Ser Thr Trp Gln Cys Thr Trp Trp Leu Cys Asp Leu Glu Lys  
 20 25 30  
 Val Ser Tyr Ser Cys Leu Cys Val Leu Thr Leu Glu Thr Glu Thr Leu  
 35 40 45

Phe Val Val Phe Thr Leu Phe Gln Gln Gln Lys Leu Phe Gln Gly Lys  
 50 55 60

Ser Tyr Arg Thr Phe Lys His Val Cys Ile His Thr Tyr Pro Ile Pro  
 65 70 75 80

His Tyr Ile Lys Val Ile Leu Leu  
 85

<210> 1124

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1124

Met Asn Leu Gly Trp Tyr Gln Met His Pro Leu Lys Met Ile Trp Leu  
 1 5 10 15

Thr Ile Phe Leu Thr Trp Leu Met Arg Gln Ala Ser Pro Thr Gly His  
 20 25 30

Asp Leu Glu Val Lys Val Phe Cys Cys Tyr Cys Gly Leu Lys Tyr Leu  
 35 40 45

Val Met Gly Glu Glu Cys Arg Val Val Ala Leu Ala Gln Thr Gln Glu  
 50 55 60

Asn Pro Phe Ser Pro Leu Phe Tyr Phe Cys Tyr Ser Asp His Leu Ser  
 65 70 75 80

Pro Phe

<210> 1125

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1125

Met Asn Leu Gly Trp Tyr Gln Met His Pro Leu Lys Met Ile Trp Leu  
 1 5 10 15

Thr Ile Phe Leu Thr Trp Leu Met Arg Gln Ala Ser Pro Thr Gly His  
 20 25 30

Asp Leu Glu Val Lys Val Phe Cys Cys Tyr Cys Gly Leu Lys Tyr Leu  
 35 40 45

Val Met Gly Glu Glu Cys Arg Val Val Ala Leu Ala Gln Thr Gln Glu  
 50 55 60

Asn Pro Phe Ser Pro Leu Phe Tyr Phe Cys Tyr Ser Asp His Leu Ser  
 65 70 75 80

Pro Phe

<210> 1126  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1126  
 Met Gly Thr Phe Ser Leu Met Leu Leu Leu Pro Ser Val Val Cys  
           1                  5                  10                  15  
 Xaa Ser Phe Lys Val Arg Pro Leu Phe Cys Arg Ala Ala Val Val Cys  
                   20                  25                  30  
 Ser Gly Ser Thr Ser Asp Pro Ile His Leu Gly Pro Ser His Thr Trp  
           35                  40                  45  
 Arg Cys His Gln Trp Arg Leu Gln Asn Ser Lys Asp Gly Cys Leu Leu  
           50                  55                  60  
 Leu Pro Pro Gly Ser Pro Ser Gln Arg Glu Thr Asp Leu Met Leu Ala  
           65                  70                  75                  80  
 Gly Met Leu Leu

<210> 1127  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 1127  
 Gly Leu Phe Ala Leu Ser Phe Leu Phe Leu Leu Val Val Met Leu Gly  
           1                  5                  10                  15  
 Cys Gln Phe Asp Ile Phe Leu Ala Phe  
                   20                  25

<210> 1128  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 1128  
 Met Gly Thr Phe Ser Leu Met Leu Leu Leu Leu Pro Ser Val Val Cys  
           1                  5                  10                  15  
 Phe Ser Phe Lys Val Arg Pro Leu Phe Cys Arg Ala Ala Val Val Cys  
                   20                  25                  30

Ser Gly Ser Thr Ser Asp Pro Ile His Leu Gly Pro Ser His Thr Trp  
 35 40 45

Arg Cys His Gln Trp Arg Leu Gln Asn Ser Lys Asp Gly Cys Leu Leu  
 50 55 60

Leu Pro Pro Gly Ser Pro Ser Gln Arg Glu Thr Asp Leu Met Leu Ala  
 65 70 75 80

Gly Met Leu Leu

<210> 1129

<211> 219

<212> PRT

<213> Homo sapiens

<400> 1129

Met Glu Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala  
 1 5 10 15

Val Leu Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro  
 20 25 30

Arg Tyr Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val  
 35 40 45

Ile Gly Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile  
 50 55 60

Lys Asn Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr  
 65 70 75 80

Ile Leu Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe  
 85 90 95

Leu Asn Arg Ala Leu Asp Ile Phe Asn Thr Ser Leu Val Phe Pro Ile  
 100 105 110

Tyr Tyr Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu  
 115 120 125

Phe Lys Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu  
 130 135 140

Ser Gly Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe  
 145 150 155 160

Lys Asp Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn  
 165 170 175

Pro Pro Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp  
 180 185 190

Lys Asn Val Leu Val Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro  
 195 200 205

Glu Glu Lys Pro Lys Val Phe Ile Ile His Ser

210

215

<210> 1130  
 <211> 219  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (104)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (197)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1130  
 Met Glu Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala  
           1                  5                  10                  15  
 Val Leu Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro  
                   20                  25                  30  
 Arg Tyr Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val  
           35                  40                  45  
 Ile Gly Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile  
           50                  55                  60  
 Lys Asn Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr  
           65                  70                  75                  80  
 Ile Leu Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe  
                   85                  90                  95  
 Leu Asn Arg Ala Leu Asp Ile Xaa Asn Thr Ser Leu Val Phe Pro Ile  
           100                  105                  110  
 Tyr Tyr Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu  
           115                  120                  125  
 Phe Lys Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu  
           130                  135                  140  
 Ser Gly Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe  
           145                  150                  155                  160  
 Lys Asp Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn  
           165                  170                  175  
 Pro Pro Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp  
           180                  185                  190  
 Lys Asn Val Leu Xaa Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro  
           195                  200                  205  
 Glu Glu Lys Pro Lys Val Phe Ile Ile His Ser

603

210

215

<210> 1131  
 <211> 217  
 <212> PRT  
 <213> Homo sapiens

<400> 1131  
 Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala Val Leu  
           1                  5                  10                  15  
 Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro Arg Tyr  
                   20                  25                  30  
 Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val Ile Gly  
                   35                  40                  45  
 Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile Lys Asn  
           50                  55                  60  
 Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr Ile Leu  
           65                  70                  75                  80  
 Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe Leu Asn  
                   85                  90                  95  
 Arg Ala Leu Asp Ile Phe Asn Thr Ser Leu Val Phe Pro Ile Tyr Tyr  
                   100                  105                  110  
 Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu Phe Lys  
           115                  120                  125  
 Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu Ser Gly  
           130                  135                  140  
 Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe Lys Asp  
           145                  150                  155                  160  
 Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn Pro Pro  
                   165                  170                  175  
 Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp Lys Asn  
                   180                  185                  190  
 Val Leu Val Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro Glu Glu  
           195                  200                  205  
 Lys Pro Lys Val Phe Ile Ile His Ser  
           210                  215

<210> 1132  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens

<220>



<221> SITE  
 <222> (215)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (252)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (253)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1132  
 Met Gln Ala Cys Val Leu Leu Leu Gly Leu Val Leu Ser Ala Gln Leu  
           1                  5                  10                  15  
 Gln Ser Pro Glu Asn Met Arg Met Gly Gly Gly Arg Val Leu Leu Arg  
                   20                  25                  30  
 Ala His Pro Val Pro Ala Gly Gly Gly Gln Cys Gln Ser Ser Ala Lys  
                   35                  40                  45  
 Gly Pro Trp Val Gly Thr Gly Pro Glu Arg Glu Glu Arg Asp Ser Pro  
           50                  55                  60  
 Glu Gly Arg Trp Ala Ser Tyr Trp Ala Gln Ser Trp Glu Gly Val Ala  
           65                  70                  75                  80  
 Ala Ser Thr Gly Trp Ala Trp Thr Pro Leu Ala Pro Thr Pro Ser Gly  
                   85                  90                  95  
 Cys Gly Cys Ser Leu Ser Leu Glu Ser Arg Thr Gly Pro Gly Cys Leu  
                   100                  105                  110  
 Gly Gly Cys Gln Val Pro Pro Glu Leu Pro Arg Ala Pro Thr Cys Lys  
           115                  120                  125  
 Cys Gln Pro Gln Gly Ser Ala Gln Met Arg Pro Ser Gln Leu Gln Pro  
           130                  135                  140  
 Ala Met Pro Trp Asp Ala His Arg Glu Gly Gly Gly Phe Gly Leu Leu  
           145                  150                  155                  160  
 Ser Pro Trp Glu Arg Leu Gly Ala Val Thr Ala Arg Leu Ala Gln Ala  
                   165                  170                  175  
 His Cys Arg Val Gly Trp Leu Pro Gln Pro Gly Leu Gly Gly Thr Pro  
                   180                  185                  190  
 Gly Ser Gly Pro Pro Cys Leu Glu Ser Gln Trp Gly Asp Gly Glu Glu  
           195                  200                  205  
 Thr Trp Pro Pro Met Ala Xaa Gly Gln Leu Arg Thr Arg Thr Cys Trp  
           210                  215                  220  
 Ser Trp Lys Cys Cys Gly Val Glu Gly Trp Gly Gly Gln Leu Leu Thr  
           225                  230                  235                  240

Pro Ala Ser Cys Leu Leu Ser Thr Phe Pro Xaa Xaa  
 245 250

<210> 1133  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens.

<400> 1133  
 Asn Ser Glu Lys Gly Gln Lys Lys Gln Arg Gly Pro Arg Trp Ile Cys  
 1 5 10 15  
 Gln Leu Phe Cys Arg Cys Phe Leu Pro Leu Leu Trp Val Val Cys Ser  
 20 25 30  
 Pro Leu Gln Thr Ser Ala Arg Arg Glu Gly Leu Asn Leu Pro Ala Pro  
 35 40 45  
 Gln Asp Leu Leu Pro Ser Gly Pro Ser Pro Ala Leu Arg Ser Leu Pro  
 50 55 60  
 Asp Arg Arg Val Asp Arg Ala Thr Trp Ala Ala Arg Glu Thr His Gly  
 65 70 75 80  
 Gly Pro Pro Cys Gly Gln Pro Cys Gln Leu Pro Pro Ser Pro Glu Leu  
 85 90 95  
 His Leu His Leu Glu Glu  
 100

<210> 1134  
 <211> 137  
 <212> PRT  
 <213> Homo sapiens

<400> 1134  
 Met Gln Ala Cys Val Leu Leu Leu Gly Leu Val Leu Ser Ala Gln Leu  
 1 5 10 15  
 Gln Ser Pro Glu Asn Met Arg Met Gly Gly Gly Arg Val Leu Leu Arg  
 20 25 30  
 Ala His Pro Val Pro Ala Gly Gly Gly Gln Cys Gln Ser Ser Ala Lys  
 35 40 45  
 Gly Pro Trp Val Gly Thr Gly Pro Glu Arg Glu Glu Arg Asp Ser Pro  
 50 55 60  
 Glu Gly Arg Trp Ala Ser Tyr Trp Ala Gln Ser Trp Glu Gly Val Ala  
 65 70 75 80  
 Ala Ser Thr Gly Trp Ala Trp Thr Pro Leu Ala Pro Thr Pro Ser Gly  
 85 90 95  
 Cys Gly Cys Ser Pro Lys Pro Gly Glu Gln Asp Arg Pro Gly Val Ser  
 100 105 110

Gly Arg Leu Pro Gly Ala Ser Gln Ser Ser Gln Gly Pro Pro Pro Ala  
 115 120 125

Ser Ala Ser Leu Arg Ala Val Pro Lys  
 130 135

<210> 1135

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1135

Met Tyr Ala Leu Tyr Ile Thr Val His Gly Tyr Phe Leu Ile Thr Phe  
 1 5 10 15

Leu Phe Gly Met Val Val Leu Ala Leu Val Val Trp Lys Ile Phe Thr  
 20 25 30

Leu Xaa Arg Ala Thr Ala Val Lys Glu Arg Gly Lys Asn Arg Lys Lys  
 35 40 45

Val Leu Thr Leu Leu Gly Leu Ser Ser Leu Val Gly Val Thr Trp Gly  
 50 55 60

Leu Ala Ile Phe Thr Pro Leu Gly Leu Ser Thr Xaa Tyr Ile Phe Ala  
 65 70 75 80

Leu Phe Asn Ser Leu Gln Ala Gln Arg Gly Ile Thr Val  
 85 90

<210> 1136

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1136

Met Tyr Ala Leu Tyr Ile Thr Val His Gly Tyr Phe Leu Ile Thr Phe  
 1 5 10 15

Leu Phe Gly Met Val Val Leu Ala Leu Val Val Trp Lys Ile Phe Thr  
 20 25 30

Leu Ser Arg Ala Thr Ala Val Lys Glu Arg Gly Lys Asn Arg Lys Lys  
 35 40 45

Val Leu Thr Leu Leu Gly Leu Ser Ser Leu Val Gly Val Thr Trp Gly  
 50 55 60

Leu Ala Ile Phe Thr Pro Leu Gly Leu Ser Thr Val Tyr Ile Phe Ala  
 65 70 75 80

Leu Phe Asn Ser Leu Gln Ala Gln Arg Gly Ile Thr Val  
 85 90

<210> 1137

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1137

Met Tyr Ala Leu Tyr Ile Thr Val His Gly Tyr Phe Leu Ile Thr Phe  
 1 5 10 15

Leu Phe Gly Met Val Val Leu Ala Leu Val Val Trp Lys Ile Phe Thr  
 20 25 30

Leu Ser Arg Ala Thr Ala Val Lys Glu Arg Gly Lys Asn Arg Lys Lys  
 35 40 45

Val Leu Thr Leu Leu Gly Leu Ser Ser Leu Val Gly Val Thr Trp Gly  
 50 55 60

Leu Ala Ile Phe Thr Pro Leu Gly Leu Ser Thr Val Tyr Ile Phe Ala  
 65 70 75 80

Leu Phe Asn Ser Leu Gln Gly Val Phe Ile Cys Cys Trp Phe Thr Ile  
 85 90 95

Leu Tyr Leu Pro Ser Gln Ser Thr Thr Val Ser Ser Ser Thr Ala Arg  
 100 105 110

Leu Asp Gln Ala His Ser Ala Ser Gln Glu  
 115 120

<210> 1138

<211> 241

<212> PRT

<213> Homo sapiens

<400> 1138

Ala Pro Gly Gln Thr Pro Ser Leu Cys Ser Trp Leu Leu Pro Leu Pro  
 1 5 10 15

Ser Thr Trp Ala Thr Thr Gly His Val Cys Phe Ser Asp Ile Leu Gln  
 20 25 30

Thr Pro Asp Gly Gly Gln Leu Leu Leu Asp Trp Ala Lys Gln Pro Asp  
 35 40 45

Ser Ser Gln Asp Pro Asp Pro Thr Thr Gln Pro Ile Val Leu Leu Leu  
 50 55 60

Pro Gly Ile Thr Gly Ser Ser Gln Glu Thr Tyr Val Leu His Leu Val  
 65 70 75 80  
 Asn Gln Ala Leu Arg Asp Gly Tyr Gln Ala Val Val Phe Asn Asn Arg  
 85 90 95  
 Gly Cys Arg Gly Glu Glu Leu Arg Thr His Arg Ala Phe Cys Ala Ser  
 100 105 110  
 Asn Thr Glu Asp Leu Glu Thr Val Val Asn His Ile Lys His Arg Tyr  
 115 120 125  
 Pro Gln Ala Pro Leu Leu Ala Val Gly Ile Ser Phe Gly Gly Ile Leu  
 130 135 140  
 Val Leu Asn His Leu Ala Gln Ala Arg Gln Ala Ala Gly Leu Val Ala  
 145 150 155 160  
 Ala Leu Thr Leu Ser Ala Cys Trp Asp Ser Phe Glu Thr Thr Arg Ser  
 165 170 175  
 Leu Glu Thr Pro Leu Asn Ser Leu Leu Phe Asn Gln Pro Leu Thr Ala  
 180 185 190  
 Gly Leu Cys Gln Leu Val Glu Arg Leu Ser Tyr Gly Lys Thr Cys Arg  
 195 200 205  
 Pro Val Gln Ser Ala Ser Leu Met Ser Ala Thr His Leu Trp Pro Leu  
 210 215 220  
 Asp Ile Lys Thr Val Leu Pro Thr Thr Lys Gln Gln Ala Leu Glu Pro  
 225 230 235 240  
 Arg

<210> 1139  
 <211> 242  
 <212> PRT  
 <213> Homo sapiens

<400> 1139  
 Met Ala Pro Gly Gln Thr Pro Ser Leu Cys Ser Trp Leu Leu Pro Leu  
 1 5 10 15  
 Pro Ser Thr Trp Ala Thr Thr Gly His Val Cys Phe Ser Asp Ile Leu  
 20 25 30  
 Gln Thr Pro Asp Gly Gly Gln Leu Leu Asp Trp Ala Lys Gln Pro  
 35 40 45  
 Asp Ser Ser Gln Asp Pro Asp Pro Thr Thr Gln Pro Ile Val Leu Leu  
 50 55 60  
 Leu Pro Gly Ile Thr Gly Ser Ser Gln Glu Thr Tyr Val Leu His Leu  
 65 70 75 80

Val Asn Gln Ala Leu Arg Asp Gly Tyr Gln Ala Val Val Phe Asn Asn  
85 90 95

Arg Gly Cys Arg Gly Glu Glu Leu Arg Thr His Arg Ala Phe Cys Ala  
100 105 110

Ser Asn Thr Glu Asp Leu Glu Thr Val Val Asn His Ile Lys His Arg  
115 120 125

Tyr Pro Gln Ala Pro Leu Leu Ala Val Gly Ile Ser Phe Gly Gly Ile  
130 135 140

Leu Val Leu Asn His Leu Ala Gln Ala Arg Gln Ala Ala Gly Leu Val  
145 150 155 160

Ala Ala Leu Thr Leu Ser Ala Cys Trp Asp Ser Phe Glu Thr Thr Arg  
165 170 175

Ser Leu Glu Thr Pro Leu Asn Ser Leu Leu Phe Asn Gln Pro Leu Thr  
180 185 190

Ala Gly Leu Cys Gln Leu Val Glu Arg Leu Ser Tyr Gly Lys Thr Cys  
195 200 205

Arg Pro Val Gln Ser Ala Ser Leu Met Ser Ala Thr His Leu Trp Pro  
210 215 220

Leu Asp Ile Lys Thr Val Leu Pro Thr Thr Lys Gln Gln Ala Leu Glu  
225 230 235 240

Pro Arg

<210> 1140

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1140

Met Gly Trp Pro Arg Pro Gly Arg Ala Leu Val Ala Val Lys Ala Leu  
1 5 10 15

Leu Val Leu Ser Leu Leu Gln Val Pro Ala Gln Ala Val Val Arg Ala  
20 25 30

Val Leu Glu Asp Asn Ser Ser Ser Val Asp Phe Ala Asp Leu Pro Ala  
35 40 45

Leu Phe Gly Val Pro Leu Ala Pro Glu Gly Ile Arg Gly Tyr Leu Met  
50 55 60

Glu Val Lys Pro Ala Asn Ala Cys His Pro Ile Glu Ala Pro Arg Leu  
65 70 75 80

Gly Asn Arg Ser Leu Gly Ala Ile Val Leu Ile Arg Arg Tyr Asp Cys  
85 90 95

Thr Phe Asp Leu Lys Val Leu Asn Ala Gln Arg Ala Gly Phe Glu Ala  
100 105 110

Ala Ile Val His Asn Val His Ser Asp Asp Leu Val Ser Met Thr His  
115 120 125

Val Tyr Glu Asp Leu Arg Gly Gln Ile Ala Ile Pro Ser Val Xaa Val  
130 135 140

Ser Glu Ala Ala Arg Arg Thr Cys Gly Ser Ser Trp Ala Ala Thr Ser  
145 150 155 160

Arg Pro Thr Arg Cys Pro Ala Asp Asp Pro Pro Cys His Asp Leu Ala  
165 170 175

Val Thr Pro Cys  
180

<210> 1141  
<211> 225  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1141  
Thr Gln Pro Cys Gln Arg Pro Gly Ile Val Thr Pro Val Leu Thr Val  
1 5 10 15

Ser Trp Val Leu Xaa Cys Thr Leu Ala Leu Val Val Ser Ala Phe Phe  
20 25 30

Val Leu Asn His Leu Trp Leu Trp Ala Gln Ala Cys Xaa Ser His Arg  
35 40 45

Arg Pro Val Lys Thr Ser Thr Cys Gln Lys Ala Gln Val Arg Thr Phe  
50 55 60

Thr Trp His Asn Asp Leu Cys Ala Ile Cys Leu Asp Glu Tyr Glu Glu  
65 70 75 80

Gly Asp Gln Leu Lys Ile Leu Pro Cys Ser His Thr Tyr His Cys Lys  
85 90 95

Cys Ile Asp Pro Trp Phe Ser Gln Ala Pro Arg Arg Ser Cys Pro Val  
100 105 110

Cys Lys Gln Ser Val Ala Ala Thr Glu Asp Ser Phe Asp Ser Thr Thr  
 115 120 125

Tyr Ser Phe Arg Asp Glu Asp Pro Ser Leu Pro Gly His Arg Pro Pro  
 130 135 140

Ile Trp Ala Ile Gln Val Gln Tyr Ala Pro Gly Gly Trp Ser Cys Trp  
 145 150 155 160

Ala Ala Pro Val Pro Thr Ala Thr Ala Ala Pro Arg Pro Trp Arg Gln  
 165 170 175

Ser Ile Pro Leu Ser Pro Gln Pro Leu Leu Arg Pro Leu Val Ser Lys  
 180 185 190

Asp Leu Gly Gln Gly Gly Gly Cys Asn Glu Glu Cys Phe Trp Ser Glu  
 195 200 205

Lys Asn Lys Val Gly Leu Lys Ala Glu Lys Lys Lys Lys Lys Lys Thr  
 210 215 220

Arg  
 225

<210> 1142  
 <211> 359  
 <212> PRT  
 <213> Homo sapiens

<400> 1142  
 Met Gly Trp Pro Arg Pro Gly Arg Ala Leu Val Ala Val Lys Ala Leu  
 1 5 10 15

Leu Val Leu Ser Leu Leu Gln Val Pro Ala Gln Ala Val Val Arg Ala  
 20 25 30

Val Leu Glu Asp Asn Ser Ser Ser Val Asp Phe Ala Asp Leu Pro Ala  
 35 40 45

Leu Phe Gly Val Pro Leu Ala Pro Glu Gly Ile Arg Gly Tyr Leu Met  
 50 55 60

Glu Val Lys Pro Ala Asn Ala Cys His Pro Ile Glu Ala Pro Arg Leu  
 65 70 75 80

Gly Asn Arg Ser Leu Gly Ala Ile Val Leu Ile Arg Arg Tyr Asp Cys  
 85 90 95

Thr Phe Asp Leu Lys Val Leu Asn Ala Gln Arg Ala Gly Phe Glu Ala  
 100 105 110

Ala Ile Val His Asn Val His Ser Asp Asp Leu Val Ser Met Thr His  
 115 120 125

Val Tyr Glu Asp Leu Arg Gly Gln Ile Ala Ile Pro Ser Val Phe Val  
 130 135 140



Ser Glu Ala Ala Ser Gln Asp Leu Arg Val Ile Leu Gly Cys Asn Lys  
 145 150 155 160  
 Ser Ala His Ala Leu Leu Leu Pro Asp Asp Pro Pro Cys His Asp Leu  
 165 170 175  
 Gly Cys His Pro Val Leu Thr Val Ser Trp Val Leu Gly Cys Thr Leu  
 180 185 190  
 Ala Leu Val Val Ser Ala Phe Phe Val Leu Asn His Leu Trp Leu Trp  
 195 200 205  
 Ala Gln Ala Cys Cys Ser His Arg Arg Pro Val Lys Thr Ser Thr Cys  
 210 215 220  
 Gln Lys Ala Gln Val Arg Thr Phe Thr Trp His Asn Asp Leu Cys Ala  
 225 230 235 240  
 Ile Cys Leu Asp Glu Tyr Glu Glu Gly Asp Gln Leu Lys Ile Leu Pro  
 245 250 255  
 Cys Ser His Thr Tyr His Cys Lys Cys Ile Asp Pro Trp Phe Ser Gln  
 260 265 270  
 Ala Pro Arg Arg Ser Cys Pro Val Cys Lys Gln Ser Val Ala Ala Thr  
 275 280 285  
 Glu Asp Ser Phe Asp Ser Thr Thr Tyr Ser Phe Arg Asp Glu Asp Pro  
 290 295 300  
 Ser Leu Pro Gly His Arg Pro Pro Ile Trp Ala Ile Gln Val Gln Leu  
 305 310 315 320  
 Arg Ser Arg Arg Leu Glu Leu Leu Gly Arg Ala Ser Pro His Cys His  
 325 330 335  
 Cys Ser Thr Thr Ser Leu Glu Ala Glu Tyr Thr Thr Val Ser Ser Ala  
 340 345 350  
 Pro Pro Glu Ala Pro Gly Gln  
 355

<210> 1143  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

<400> 1143  
 Met Trp His Thr Lys Pro Leu Gly Ser Gly Ser Cys Val Pro Leu Leu  
 1 5 10 15  
 Pro Leu Leu Leu Leu Leu Leu Leu Phe Pro Leu Leu Pro Trp Pro  
 20 25 30  
 Pro Pro Leu Pro Pro Pro Pro Pro Ser Ser Leu His Pro Phe Ala Pro  
 35 40 45  
 Ala Phe Pro Ala Thr Gly Ser Leu Ser Ser Asn Asn Ser Gln Leu Leu

50                      55                      60  
 Ala Pro Leu Arg Leu Gln Asn Ala Leu His Leu Phe Lys Cys Phe Pro  
 65                      70                      75                      80  
 Val Leu Phe Pro Leu His Lys Ile Ile Ser Phe His Pro Glu Tyr Pro  
 85                      90                      95  
 Trp Gln Ala Pro Ile Phe Gln Tyr Phe Tyr Leu Ser Ile Pro Ser Ser  
 100                      105                      110  
 Ser Leu His Pro Glu His Leu Gly His Ser Phe Val Ser Thr Leu His  
 115                      120                      125  
 Ser Pro Thr Arg Gln  
 130

<210> 1144  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1144  
 Pro Cys Cys Phe His Lys Pro His Ala Ser His Ile Met Asn Phe Leu  
 1                      5                      10                      15  
 Ile Arg Ile Gln Cys Ile Tyr Leu Pro Lys Ile Val Cys Ala Tyr Ser  
 20                      25                      30  
 Lys Tyr Glu Gln Phe Leu Asn Asn Gly Ser Ile Ile Phe Val Gln Asn  
 35                      40                      45  
 Ala Lys Asn Trp Gly Gln Ala Trp Trp His Thr Pro Val Ile Pro Ala  
 50                      55                      60  
 Leu Trp Glu Ala Lys Val Gly Xaa Ser Pro Glu Val Arg Ser Leu Arg  
 65                      70                      75                      80  
 Pro Ala Trp Pro Ala Trp  
 85

<210> 1145  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

<400> 1145  
 Met Trp His Thr Lys Pro Leu Gly Ser Gly Ser Cys Val Pro Leu Leu  
 1                      5                      10                      15  
 Pro Leu Leu Leu Leu Leu Leu Leu Phe Pro Leu Leu Pro Trp Pro

20                      25                      30  
 Pro Pro Leu Pro Pro Pro Pro Pro Ser Ser Leu His Pro Phe Ala Pro  
           35                      40                      45  
 Ala Phe Pro Ala Thr Gly Ser Leu Ser Ser Asn Asn Ser Gln Leu Leu  
           50                      55                      60  
 Ala Pro Leu Arg Leu Gln Asn Ala Leu His Leu Phe Lys Cys Phe Pro  
           65                      70                      75                      80  
 Val Leu Phe Pro Leu His Lys Ile Ile Ser Phe His Pro Glu Tyr Pro  
                                  85                      90                      95  
 Trp Gln Ala Pro Ile Phe Gln Tyr Phe Tyr Leu Ser Ile Pro Ser Ser  
                                  100                      105                      110  
 Ser Leu His Pro Glu His Leu Gly His Ser Phe Val Ser Thr Leu His  
                                  115                      120                      125  
 Ser Pro Thr Arg Gln  
                                  130

&lt;210&gt; 1146

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (91)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1146

Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu Leu  
           1                      5                      10                      15

Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp  
                                  20                      25                      30

Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala  
                                  35                      40                      45

Arg Ala Leu Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Gly  
                                  50                      55                      60

Cys Ser Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Glu  
                                  65                      70                      75                      80

Leu Leu Leu Arg Ser Arg Ala Leu Ala Thr Xaa Arg Arg Ser Ala Arg  
                                  85                      90                      95

Val Thr Gly

&lt;210&gt; 1147

&lt;211&gt; 455

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1147

Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu Leu  
 1 5 10 15

Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp  
 20 25 30

Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala  
 35 40 45

Arg Ala Leu Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Pro  
 50 55 60

Cys Ile Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Arg  
 65 70 75 80

Asn Phe Leu Leu Arg Ser Arg Ala Leu Ala Thr Gln Arg Arg Ser Ala  
 85 90 95

Arg Val Thr Gly Leu Thr Arg Leu Pro Thr Cys Ala Arg Leu Gly Leu  
 100 105 110

Gly Thr Arg Arg Arg Arg Gln Arg Arg Gly Glu Arg Trp Arg Arg Arg  
 115 120 125

Ala Gly Ser Ala Gly Ser Arg Arg Cys Ser Gly Arg Lys Arg Arg Gly  
 130 135 140

Val Cys Arg Arg Gly Arg Cys Arg Gln Arg Trp Arg Ser Arg Ala Pro  
 145 150 155 160

Leu Ser Pro Gly Ala Thr Val Ala Leu Leu Leu Pro Ala Gly Pro Glu  
 165 170 175

Phe Leu Trp Leu Trp Ile Gly Leu Ala Lys Ala Gly Leu Arg Thr Ala  
 180 185 190

Phe Val Pro Thr Ala Leu Arg Arg Gly Pro Leu Leu His Cys Leu Arg  
 195 200 205

Ser Cys Gly Ala Arg Ala Leu Val Leu Ala Pro Glu Phe Leu Glu Ser  
 210 215 220

Leu Glu Pro Asp Leu Pro Ala Leu Arg Ala Met Gly Leu His Leu Trp  
 225 230 235 240

Ala Ala Gly Pro Gly Thr His Pro Ala Gly Ile Ser Asp Leu Leu Ala  
 245 250 255

Glu Val Ser Ala Glu Val Asp Gly Pro Val Pro Gly Tyr Leu Ser Ser  
 260 265 270

Pro Gln Ser Ile Thr Asp Thr Cys Leu Tyr Ile Phe Thr Ser Gly Thr  
 275 280 285

Thr Gly Leu Pro Lys Ala Ala Arg Ile Ser His Leu Lys Ile Leu Gln

290	295	300
Cys Gln Gly Phe Tyr Gln Leu Cys Gly Val His Gln Glu Asp Val Ile		
305	310	315 320
Tyr Leu Ala Leu Pro Leu Tyr His Met Ser Gly Ser Leu Leu Gly Ile		
	325	330 335
Val Gly Cys Met Gly Ile Gly Ala Thr Val Val Leu Lys Ser Lys Phe		
	340	345 350
Ser Ala Gly Gln Phe Trp Glu Asp Cys Gln Gln His Arg Val Thr Val		
	355	360 365
Phe Gln Tyr Ile Gly Glu Leu Cys Arg Tyr Leu Val Asn Gln Pro Pro		
	370	375 380
Ser Lys Ala Glu Arg Gly His Lys Val Arg Leu Ala Val Gly Ser Gly		
	385	390 395 400
Leu Arg Pro Asp Thr Trp Glu Arg Phe Val Arg Arg Phe Gly Pro Leu		
	405	410 415
Gln Val Leu Glu Thr Tyr Gly Leu Thr Glu Gly Asn Val Pro Pro Ser		
	420	425 430
Thr Thr Gln Asp Ser Gly Ala Leu Trp Gly Val Leu Pro Gly Phe Thr		
	435	440 445
Ser Ile Ser Ser Pro Ser Pro		
	450	455

&lt;210&gt; 1148

&lt;211&gt; 153

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens.

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (83)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (86)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

<221> SITE  
 <222> (91)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (124)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1148  
 Met Met Leu Ile Pro Met Ala Ser Val Met Ala Val Thr Glu Pro Lys  
           1                  5                  10                  15  
 Trp Val Ser Val Trp Ser Arg Phe Leu Trp Val Thr Leu Leu Ser Met  
                   20                  25                  30  
 Val Leu Gly Ser Leu Leu Ala Leu Leu Leu Pro Leu Gly Ala Val Glu  
           35                  40                  45  
 Glu Gln Cys Leu Ala Val Leu Lys Gly Leu Tyr Leu Leu Arg Ser Lys  
           50                  55                  60  
 Pro Asp Arg Ala Gln His Ala Ala Pro Ser Ala Pro Xaa Arg Pro Arg  
           65                  70                  75                  80  
 Ser Xaa Xaa Ser Pro Xaa Gly Ala Arg Arg Xaa Leu Val Ala Lys Thr  
                   85                  90                  95  
 Lys Ala Phe Ser Ser Gly Val Lys Phe Gly Lys Ala Gln Glu Leu Ala  
           100                  105                  110  
 Leu Glu Pro Arg Pro Trp Lys Ile Lys Xaa Ala Xaa Gly Gln Ser Arg  
           115                  120                  125  
 Gly Lys Lys Ala Gln Lys Ser Ser Phe Asn Ala Pro Pro Phe Lys Glu  
           130                  135                  140  
 Trp Asp Pro Gly Asn Phe Pro Gly Asp  
           145                  150

<210> 1149  
 <211> 361  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1149

Ala Xaa Pro Xaa Gly Lys Leu Glu Ala Arg Ala Ala Leu Asn Gln Ala  
1 5 10 15

Leu Glu Xaa Lys Arg Gln Gly Lys Arg Glu Lys Ala Gln Lys Leu Phe  
20 25 30

Met His Ala Leu Lys Met Asp Pro Asp Phe Val Asp Ala Leu Thr Glu  
35 40 45

Phe Gly Ile Phe Ser Glu Glu Asp Lys Asp Ile Ile Gln Ala Asp Tyr  
50 55 60

Leu Tyr Thr Arg Ala Leu Thr Ile Ser Pro Tyr His Glu Lys Ala Leu  
65 70 75 80

Val Asn Arg Asp Arg Thr Leu Pro Leu Val Glu Glu Ile Asp Gln Arg  
85 90 95

Tyr Phe Ser Ile Ile Asp Ser Lys Val Lys Lys Val Met Ser Ile Pro  
100 105 110

Lys Gly Asn Ser Ala Leu Arg Arg Val Met Glu Glu Thr Tyr Tyr His  
115 120 125

His Ile Tyr His Thr Val Ala Ile Glu Gly Asn Thr Leu Thr Leu Ser  
130 135 140

Glu Ile Arg His Ile Leu Glu Thr Arg Tyr Ala Val Pro Gly Lys Ser  
145 150 155 160

Leu Glu Glu Gln Asn Glu Val Ile Gly Met His Ala Ala Met Lys Tyr  
165 170 175

Ile Asn Thr Thr Leu Val Ser Arg Ile Gly Ser Val Thr Ile Ser Asp  
180 185 190

Val Leu Glu Ile His Arg Arg Val Leu Gly Tyr Val Asp Pro Val Glu  
195 200 205

Ala Gly Arg Phe Arg Thr Thr Gln Val Leu Val Gly His His Ile Pro  
210 215 220

Pro His Pro Gln Asp Val Glu Lys Gln Met Gln Glu Phe Val Gln Trp  
225 230 235 240

Leu Asn Ser Glu Glu Ala Met Asn Leu His Pro Val Glu Phe Ala Ala  
245 250 255

Leu Ala His Tyr Lys Leu Val Tyr Ile His Pro Phe Ile Asp Gly Asn  
260 265 270

Gly Arg Thr Ser Arg Leu Leu Met Asn Leu Ile Leu Met Gln Ala Gly

275                      280                      285  
 Tyr Pro Pro Ile Thr Ile Arg Lys Glu Gln Arg Ser Asp Tyr Tyr His  
 290                      295                      300  
 Val Leu Glu Ala Ala Asn Glu Gly Asp Val Arg Pro Phe Ile Arg Phe  
 305                      310                      315                      320  
 Ile Ala Lys Cys Thr Glu Thr Thr Leu Asp Thr Leu Leu Phe Ala Thr  
 325                      330                      335  
 Thr Glu Tyr Ser Val Ala Leu Pro Glu Ala Gln Pro Asn His Ser Gly  
 340                      345                      350  
 Phe Lys Glu Thr Leu Pro Val Lys Pro  
 355                      360  
  
 <210> 1150  
 <211> 458  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1150  
 Met Met Leu Ile Pro Met Ala Ser Val Met Ala Val Thr Glu Pro Lys  
 1                      5                      10                      15  
 Trp Val Ser Val Trp Ser Arg Phe Leu Trp Val Thr Leu Leu Ser Met  
 20                      25                      30  
 Val Leu Gly Ser Leu Leu Ala Leu Leu Leu Pro Leu Gly Ala Val Glu  
 35                      40                      45  
 Glu Gln Cys Leu Ala Val Leu Lys Gly Leu Tyr Leu Leu Arg Ser Lys  
 50                      55                      60  
 Pro Asp Arg Ala Gln His Ala Ala Thr Lys Cys Thr Ser Pro Ser Thr  
 65                      70                      75                      80  
 Glu Leu Ser Ile Thr Ser Arg Gly Ala Thr Leu Leu Val Ala Lys Thr  
 85                      90                      95  
 Lys Ala Ser Pro Ala Gly Lys Leu Glu Ala Arg Ala Ala Leu Asn Gln  
 100                      105                      110  
 Ala Leu Glu Met Lys Arg Gln Gly Lys Arg Glu Lys Ala Gln Lys Leu  
 115                      120                      125  
 Phe Met His Ala Leu Lys Met Asp Pro Asp Phe Val Asp Ala Leu Thr  
 130                      135                      140  
 Glu Phe Gly Ile Phe Ser Glu Glu Asp Lys Asp Ile Ile Gln Ala Asp  
 145                      150                      155                      160  
 Tyr Leu Tyr Thr Arg Ala Leu Thr Ile Ser Pro Tyr His Glu Lys Ala  
 165                      170                      175  
 Leu Val Asn Arg Asp Arg Thr Leu Pro Leu Val Glu Glu Ile Asp Gln  
 180                      185                      190  
 620



Arg Tyr Phe Ser Ile Ile Asp Ser Lys Val Lys Lys Val Met Ser Ile  
 195 200 205  
 Pro Lys Gly Asn Ser Ala Leu Arg Arg Val Met Glu Glu Thr Tyr Tyr  
 210 215 220  
 His His Ile Tyr His Thr Val Ala Ile Glu Gly Asn Thr Leu Thr Leu  
 225 230 235 240  
 Ser Glu Ile Arg His Ile Leu Glu Thr Arg Tyr Ala Val Pro Gly Lys  
 245 250 255  
 Ser Leu Glu Glu Gln Asn Glu Val Ile Gly Met His Ala Ala Met Lys  
 260 265 270  
 Tyr Ile Asn Thr Thr Leu Val Ser Arg Ile Gly Ser Val Thr Ile Ser  
 275 280 285  
 Asp Val Leu Glu Ile His Arg Arg Val Leu Gly Tyr Val Asp Pro Val  
 290 295 300  
 Glu Ala Gly Arg Phe Arg Thr Thr Gln Val Leu Val Gly His His Ile  
 305 310 315 320  
 Pro Pro His Pro Gln Asp Val Glu Lys Gln Met Gln Glu Phe Val Gln  
 325 330 335  
 Trp Leu Asn Ser Glu Glu Ala Met Asn Leu His Pro Val Glu Phe Ala  
 340 345 350  
 Ala Leu Ala His Tyr Lys Leu Val Tyr Ile His Pro Phe Ile Asp Gly  
 355 360 365  
 Asn Gly Arg Thr Ser Arg Leu Leu Met Asn Leu Ile Leu Met Gln Ala  
 370 375 380  
 Gly Tyr Pro Pro Ile Thr Ile Arg Lys Glu Gln Arg Ser Asp Tyr Tyr  
 385 390 395 400  
 His Val Leu Glu Ala Ala Asn Glu Gly Asp Val Arg Pro Phe Ile Arg  
 405 410 415  
 Phe Ile Ala Lys Cys Thr Glu Thr Thr Leu Asp Thr Leu Leu Phe Ala  
 420 425 430  
 Thr Thr Glu Tyr Ser Val Ala Leu Pro Glu Ala Gln Pro Asn His Ser  
 435 440 445  
 Gly Phe Lys Glu Thr Leu Pro Val Lys Pro  
 450 455

&lt;210&gt; 1151

&lt;211&gt; 125

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1151

Ala Gln Arg Asn Pro Gly Ala Val Pro Ala Val Trp Arg Gln Ala Gly  
 1 5 10 15

Val Thr Phe Thr Ser Ala Lys Gly Arg Ser Ser Pro Tyr Trp Ser Leu  
 20 25 30

His Pro Gln Ile Ile Leu Leu Arg Lys Leu Ser Ser Ser Xaa Gln Lys  
 35 40 45

Pro Arg Ser Ser Ser Ala Gln Cys Gly Arg Asn Ala Ala Ala Gly Leu  
 50 55 60

Pro His Cys Leu Arg Ala Ser Trp Ser Arg Leu Leu Lys Ile Glu Trp  
 65 70 75 80

Gln Val Gly Leu Ala Trp Ala Gly Ala Asp Val Leu Cys Gly His Pro  
 85 90 95

Val Pro Lys Arg Pro Pro Thr Leu Gly Pro Gln Thr Ser Gly Ala Asp  
 100 105 110

Trp His Leu Arg Gly His Ser Pro Thr His Leu Leu Gln  
 115 120 125

&lt;210&gt; 1152

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1152

Met Leu Ser Gly Ser Leu Gly Ser Ala Val Cys Met Ser Ser Gln Pro  
 1 5 10 15

Arg

&lt;210&gt; 1153

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1153

Met Leu Ser Gly Ser Leu Gly Ser Ala Val Cys Met Ser Ser Gln Pro  
 1 5 10 15

Arg

&lt;210&gt; 1154

<211> 254  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (218)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (228)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (240)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1154  
 Glu Thr Arg Leu His His Val Ser Thr Leu Ala Ala Phe Thr Val Arg  
 1 5 10 15  
 Gln Val Gln Gln His Gln Gly Asn Leu Asp Ala Ser Gly Pro Ala Arg  
 20 25 30  
 Asp Leu Val Asp Ala Phe Leu Leu Lys Met Ala Gln Glu Glu Gln Asn  
 35 40 45  
 Pro Gly Thr Glu Phe Thr Asn Lys Asn Met Leu Met Thr Val Ile Tyr  
 50 55 60  
 Leu Leu Phe Ala Gly Thr Met Thr Val Ser Thr Thr Val Gly Tyr Thr  
 65 70 75 80  
 Leu Leu Leu Leu Met Lys Tyr Pro His Val Gln Lys Trp Val Arg Glu  
 85 90 95  
 Glu Leu Asn Arg Glu Leu Gly Ala Gly Gln Ala Pro Ser Leu Gly Asp  
 100 105 110  
 Arg Thr Arg Ser Leu Thr Pro Thr Arg Phe Cys Met Arg Arg Ser Gly  
 115 120 125  
 Cys Trp Arg Trp Cys Pro Trp Glu Tyr Pro Ala Pro Ser Cys Gly Pro  
 130 135 140  
 Pro Ala Ser Glu Gly Thr Pro Cys Pro Arg Ala Arg Arg Ser Ser Pro  
 145 150 155 160  
 Ser Leu Ala Pro Ser Cys Met Thr Pro Thr Ser Ser Ser Thr Gln Lys  
 165 170 175  
 Ser Ser Thr Gln Thr Val Ser Trp Met Gln Met Asp Gly Ser Gly Ser  
 180 185 190  
 Met Arg Arg Ser Cys Leu Leu Leu Lys Glu Ala Cys Leu Pro Trp Lys  
 195 200 205  
 Gly Pro Gly Lys Ser Gly Ala Leu Pro Xaa Leu His His His Pro Thr

210                      215                      220  
 Ser Leu Leu Xaa Gly Glu Pro Val Pro Ala Gly His Pro Glu Pro Xaa  
 225                      230                      235                      240  
 Ala His Arg Gln Trp Pro Phe Gln His Ser Pro Ser Leu Pro  
                     245                      250  
  
 <210> 1155  
 <211> 302  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1155  
 Met Glu Ala Thr Gly Thr Trp Ala Leu Leu Leu Ala Leu Ala Leu Leu  
   1                      5                      10                      15  
 Leu Leu Leu Thr Leu Ala Leu Ser Gly Thr Arg Ala Arg Gly His Leu  
                     20                      25                      30  
 Pro Pro Gly Pro Thr Pro Leu Pro Leu Leu Gly Asn Leu Leu Gln Leu  
                     35                      40                      45  
 Arg Pro Gly Ala Leu Tyr Ser Gly Leu Met Arg Leu Ser Lys Lys Tyr  
                     50                      55                      60  
 Gly Pro Val Phe Thr Ile Tyr Leu Gly Pro Trp Arg Pro Val Val Val  
   65                      70                      75                      80  
 Leu Val Gly Gln Glu Ala Val Arg Glu Ala Leu Gly Gly Gln Ala Glu  
                     85                      90                      95  
 Glu Phe Ser Gly Arg Gly Thr Val Ala Met Leu Glu Gly Thr Phe Asp  
                     100                      105                      110  
 Gly His Gly Val Phe Phe Ser Asn Gly Glu Arg Trp Arg Gln Leu Arg  
                     115                      120                      125  
 Lys Phe Thr Met Leu Ala Leu Arg Asp Leu Gly Met Gly Lys Arg Glu  
                     130                      135                      140  
 Gly Glu Glu Leu Ile Gln Ala Glu Ala Arg Cys Leu Val Glu Thr Phe  
   145                      150                      155                      160  
 Gln Gly Thr Glu Gly Arg Pro Phe Asp Pro Ser Leu Leu Leu Ala Gln  
                     165                      170                      175  
 Ala Thr Ser Asn Val Val Cys Ser Leu Leu Phe Gly Leu Arg Phe Ser  
                     180                      185                      190  
 Tyr Glu Asp Lys Glu Phe Gln Ala Val Val Arg Ala Ala Gly Gly Thr  
                     195                      200                      205  
 Leu Leu Gly Val Ser Ser Gln Gly Gly Gln Val Ser Gly Trp Asp Pro  
   210                      215                      220  
 Ser Pro Thr Thr Phe Pro Glu Gly Ser Cys Gln Gly Pro Met Arg Thr  
   225                      230                      235                      240

Ser Cys Pro Ser Pro His Arg Pro Thr Arg Cys Ser Pro Gly Ser Cys  
 245 250 255  
 Gly Pro Cys Gln Ala Pro Thr Ser Ser Ser Ser Thr Thr Ser Ala Pro  
 260 265 270  
 Trp Leu Pro Ser Gln Ser Gly Arg Cys Ser Ser Thr Arg Gly Thr Trp  
 275 280 285  
 Met Leu Arg Ala Pro His Val Thr Leu Ser Met Pro Ser Cys  
 290 295 300

<210> 1156  
 <211> 302  
 <212> PRT  
 <213> Homo sapiens

<400> 1156  
 Met Glu Ala Thr Gly Thr Trp Ala Leu Leu Leu Ala Leu Ala Leu Leu  
 1 5 10 15  
 Leu Leu Leu Thr Leu Ala Leu Ser Gly Thr Arg Ala Arg Gly His Leu  
 20 25 30  
 Pro Pro Gly Pro Thr Pro Leu Pro Leu Leu Gly Asn Leu Leu Gln Leu  
 35 40 45  
 Arg Pro Gly Ala Leu Tyr Ser Gly Leu Met Arg Leu Ser Lys Lys Tyr  
 50 55 60  
 Gly Pro Val Phe Thr Ile Tyr Leu Gly Pro Trp Arg Pro Val Val Val  
 65 70 75 80  
 Leu Val Gly Gln Glu Ala Val Arg Glu Ala Leu Gly Gly Gln Ala Glu  
 85 90 95  
 Glu Phe Ser Gly Arg Gly Thr Val Ala Met Leu Glu Gly Thr Phe Asp  
 100 105 110  
 Gly His Gly Val Phe Phe Ser Asn Gly Glu Arg Trp Arg Gln Leu Arg  
 115 120 125  
 Lys Phe Thr Met Leu Ala Leu Arg Asp Leu Gly Met Gly Lys Arg Glu  
 130 135 140  
 Gly Glu Glu Leu Ile Gln Ala Glu Ala Arg Cys Leu Val Glu Thr Phe  
 145 150 155 160  
 Gln Gly Thr Glu Gly Arg Pro Phe Asp Pro Ser Leu Leu Leu Ala Gln  
 165 170 175  
 Ala Thr Ser Asn Val Val Cys Ser Leu Leu Phe Gly Leu Arg Phe Ser  
 180 185 190  
 Tyr Glu Asp Lys Glu Phe Gln Ala Val Val Arg Ala Ala Gly Gly Thr  
 195 200 205

Leu Leu Gly Val Ser Ser Gln Gly Gly Gln Val Ser Gly Trp Asp Pro  
 210 215 220

Ser Pro Thr Thr Phe Pro Glu Gly Ser Cys Gln Gly Pro Met Arg Thr  
 225 230 235 240

Ser Cys Pro Ser Pro His Arg Pro Thr Arg Cys Ser Pro Gly Ser Cys  
 245 250 255

Gly Pro Cys Gln Ala Pro Thr Ser Ser Ser Ser Thr Thr Ser Ala Pro  
 260 265 270

Trp Leu Pro Ser Gln Ser Gly Arg Cys Ser Ser Thr Arg Gly Thr Trp  
 275 280 285

Met Leu Arg Ala Pro His Val Thr Leu Ser Met Pro Ser Cys  
 290 295 300

<210> 1157

<211> 240

<212> PRT

<213> Homo sapiens

<400> 1157

Met Thr Ala Pro Val Pro Ala Pro Arg Ile Leu Leu Pro Leu Leu Leu  
 1 5 10 15

Leu Leu Leu Leu Thr Pro Pro Pro Gly Ala Arg Gly Glu Val Cys Met  
 20 25 30

Ala Ser Arg Gly Leu Ser Leu Phe Pro Glu Ser Cys Pro Asp Phe Cys  
 35 40 45

Cys Gly Thr Cys Asp Asp Gln Tyr Cys Cys Ser Asp Val Leu Lys Lys  
 50 55 60

Phe Val Trp Ser Glu Glu Arg Cys Ala Val Pro Glu Ala Ser Val Pro  
 65 70 75 80

Ala Ser Val Glu Pro Val Glu Gln Leu Gly Ser Ala Leu Arg Phe Arg  
 85 90 95

Pro Gly Tyr Asn Asp Pro Met Ser Gly Phe Gly Ala Thr Leu Ala Val  
 100 105 110

Gly Leu Thr Ile Phe Val Leu Ser Val Val Thr Ile Ile Ile Cys Phe  
 115 120 125

Thr Cys Ser Cys Cys Cys Leu Tyr Lys Thr Cys Arg Arg Pro Arg Pro  
 130 135 140

Val Val Thr Thr Thr Thr Ser Thr Thr Val Val His Ala Pro Tyr Pro  
 145 150 155 160

Gln Pro Pro Ser Val Pro Pro Ser Tyr Pro Gly Pro Ser Tyr Gln Gly  
 165 170 175

Tyr His Thr Met Pro Pro Gln Pro Gly Met Pro Ala Ala Pro Tyr Pro

180 185 190

Met Gln Tyr Pro Pro Pro Tyr Pro Ala Gln Pro Met Gly Pro Pro Ala  
195 200 205

Tyr His Glu Thr Leu Ala Gly Gly Ala Ala Ala Pro Tyr Pro Ala Ser  
210 215 220

Gln Pro Pro Tyr Asn Pro Ala Tyr Met Asp Ala Pro Lys Ala Ala Leu  
225 230 235 240

<210> 1158  
<211> 240  
<212> PRT  
<213> Homo sapiens

<400> 1158

Met Thr Ala Pro Val Pro Ala Pro Arg Ile Leu Leu Pro Leu Leu Leu  
1 5 10 15

Leu Leu Leu Leu Thr Pro Pro Pro Gly Ala Arg Gly Glu Val Cys Met  
20 25 30

Ala Ser Arg Gly Leu Ser Leu Phe Pro Glu Ser Cys Pro Asp Phe Cys  
35 40 45

Cys Gly Thr Cys Asp Asp Gln Tyr Cys Cys Ser Asp Val Leu Lys Lys  
50 55 60

Phe Val Trp Ser Glu Glu Arg Cys Ala Val Pro Glu Ala Ser Val Pro  
65 70 75 80

Ala Ser Val Glu Pro Val Glu Gln Leu Gly Ser Ala Leu Arg Phe Arg  
85 90 95

Pro Gly Tyr Asn Asp Pro Met Ser Gly Phe Gly Ala Thr Leu Ala Val  
100 105 110

Gly Leu Thr Ile Phe Val Leu Ser Val Val Thr Ile Ile Ile Cys Phe  
115 120 125

Thr Cys Ser Cys Cys Cys Leu Tyr Lys Thr Cys Arg Arg Pro Arg Pro  
130 135 140

Val Val Thr Thr Thr Thr Ser Thr Thr Val Val His Ala Pro Tyr Pro  
145 150 155 160

Gln Pro Pro Ser Val Pro Pro Ser Tyr Pro Gly Pro Ser Tyr Gln Gly  
165 170 175

Tyr His Thr Met Pro Pro Gln Pro Gly Met Pro Ala Ala Pro Tyr Pro  
180 185 190

Met Gln Tyr Pro Pro Pro Tyr Pro Ala Gln Pro Met Gly Pro Pro Ala  
195 200 205

Tyr His Glu Thr Leu Ala Gly Gly Ala Ala Ala Pro Tyr Pro Ala Ser  
 210 215 220

Gln Pro Pro Tyr Asn Pro Ala Tyr Met Asp Ala Pro Lys Ala Ala Leu  
 225 230 235 240

<210> 1159  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<400> 1159  
 Met Lys Gly Leu Arg Ser Leu Ala Ala Thr Thr Leu Ala Leu Phe Leu  
 1 5 10 15

Val Phe Val Phe Leu Gly Asn Ser Ser Cys Ala Pro Gln Arg Leu Leu  
 20 25 30

Glu Arg Arg Asn Trp Thr Pro Gln Ala Met Leu Tyr Leu Lys Gly Ala  
 35 40 45

Gln Gly Arg Arg Phe Ile Ser Asp Gln Ser Arg Arg Lys Asp Leu Ser  
 50 55 60

Asp Arg Pro Leu Pro Glu Arg Arg Ser Pro Asn Pro Gln Leu Leu Thr  
 65 70 75 80

Ile Pro Glu Ala Ala Thr Ile Leu Leu Ala Ser Leu Gln Lys Ser Pro  
 85 90 95

Glu Asp Glu Glu Lys Asn Phe Asp Gln Thr Arg Phe Leu Glu Asp Ser  
 100 105 110

Leu Leu Asn Trp  
 115

<210> 1160  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<400> 1160  
 Met Lys Gly Leu Arg Ser Leu Ala Ala Thr Thr Leu Ala Leu Phe Leu  
 1 5 10 15

Val Phe Val Phe Leu Gly Asn Ser Ser Cys Ala Pro Gln Arg Leu Leu  
 20 25 30

Glu Arg Arg Asn Trp Thr Pro Gln Ala Met Leu Tyr Leu Lys Gly Ala  
 35 40 45

Gln Gly Arg Arg Phe Ile Ser Asp Gln Ser Arg Arg Lys Asp Leu Ser



50                      55                      60  
 Asp Arg Pro Leu Pro Glu Arg Arg Ser Pro Asn Pro Gln Leu Leu Thr  
 65                      70                      75                      80  
 Ile Pro Glu Ala Ala Thr Ile Leu Leu Ala Ser Leu Gln Lys Ser Pro  
 85                      90                      95  
 Glu Asp Glu Glu Lys Asn Phe Asp Gln Thr Arg Phe Leu Glu Asp Ser  
 100                      105                      110  
 Leu Leu Asn Trp  
 115  
  
 <210> 1161  
 <211> 426  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1161  
 Val Val-Pro Phe Ser Gly Met Leu Pro Pro Gly Ala Glu Lys Ala Val  
 1                      5                      10                      15  
 Ala Ser Phe Val Thr Gln Leu Ala Ala Ala Glu Ala Leu Gln Lys Ala  
 20                      25                      30  
 Pro Asp Val Thr Thr Leu Pro Arg Asn Val Met Phe Val Phe Phe Gln  
 35                      40                      45  
 Gly Glu Thr Phe Asp Tyr Ile Gly Ser Ser Arg Met Val Tyr Asp Met  
 50                      55                      60  
 Glu Lys Gly Lys Phe Pro Val Gln Leu Glu Asn Val Asp Ser Phe Val  
 65                      70                      75                      80  
 Glu Leu Gly Gln Val Ala Leu Arg Thr Ser Leu Glu Leu Trp Met His  
 85                      90                      95  
 Thr Asp Pro Val Ser Gln Lys Asn Glu Ser Val Arg Asn Gln Val Glu  
 100                      105                      110  
 Asp Leu Leu Ala Thr Leu Glu Lys Ser Gly Ala Gly Val Pro Ala Val  
 115                      120                      125  
 Ile Leu Arg Arg Pro Asn Gln Ser Gln Pro Leu Pro Pro Ser Ser Leu  
 130                      135                      140  
 Gln Arg Phe Leu Arg Ala Arg Asn Ile Ser Gly Val Val Leu Ala Asp  
 145                      150                      155                      160  
 His Ser Gly Ala Phe His Asn Lys Tyr Tyr Gln Ser Ile Tyr Asp Thr  
 165                      170                      175  
 Ala Glu Asn Ile Asn Val Ser Tyr Pro Glu Trp Leu Ser Pro Glu Glu  
 180                      185                      190  
 Asp Leu Asn Phe Val Thr Asp Thr Ala Lys Ala Leu Ala Asp Val Ala  
 195                      200                      205

Thr Val Leu Gly Arg Ala Leu Tyr Glu Leu Ala Gly Gly Thr Asn Phe  
 210 215 220  
 Ser Asp Thr Val Gln Ala Asp Pro Gln Thr Val Thr Arg Leu Leu Tyr  
 225 230 235 240  
 Gly Phe Leu Ile Lys Ala Asn Asn Ser Trp Phe Gln Ser Ile Leu Arg  
 245 250 255  
 Gln Asp Leu Arg Ser Tyr Leu Gly Asp Gly Pro Leu Gln His Tyr Ile  
 260 265 270  
 Ala Val Ser Ser Pro Thr Asn Thr Thr Tyr Val Val Gln Tyr Ala Leu  
 275 280 285  
 Ala Asn Leu Thr Gly Thr Val Val Asn Leu Thr Arg Glu Gln Cys Gln  
 290 295 300  
 Asp Pro Ser Lys Val Pro Ser Glu Asn Lys Asp Leu Tyr Glu Tyr Ser  
 305 310 315 320  
 Trp Val Gln Gly Pro Leu His Ser Asn Glu Thr Asp Arg Leu Pro Arg  
 325 330 335  
 Cys Val Arg Ser Thr Ala Arg Leu Ala Arg Ala Leu Ser Pro Ala Phe  
 340 345 350  
 Glu Leu Ser Gln Trp Ser Ser Thr Glu Tyr Ser Thr Trp Thr Glu Ser  
 355 360 365  
 Arg Trp Lys Asp Ile Arg Ala Arg Ile Phe Leu Ile Ala Ser Lys Glu  
 370 375 380  
 Leu Glu Leu Ile Thr Leu Thr Val Gly Phe Gly Ile Leu Ile Phe Ser  
 385 390 395 400  
 Leu Ile Val Thr Tyr Cys Ile Asn Ala Lys Ala Asp Val Leu Phe Ile  
 405 410 415  
 Ala Pro Arg Glu Pro Gly Ala Val Ser Tyr  
 420 425

&lt;210&gt; 1162

&lt;211&gt; 417

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1162

Met Ala Thr Ala Gly Gly Gly Ser Gly Ala Asp Pro Gly Ser Arg Gly  
 1 5 10 15

Leu Leu Arg Leu Leu Ser Phe Cys Val Leu Leu Ala Gly Leu Cys Arg  
 20 25 30

Gly Asn Ser Val Glu Arg Lys Ile Tyr Ile Pro Leu Asn Lys Thr Ala  
 35 40 45

Pro Cys Val Arg Leu Leu Asn Ala Thr His Gln Ile Gly Cys Gln Ser  
 50 55 60  
 Ser Ile Ser Gly Asp Thr Gly Val Ile His Val Val Glu Lys Glu Glu  
 65 70 75 80  
 Asp Leu Gln Trp Val Leu Thr Asp Gly Pro Asn Pro Pro Tyr Met Val  
 85 90 95  
 Leu Leu Glu Ser Lys His Phe Thr Arg Asp Leu Met Glu Lys Leu Lys  
 100 105 110  
 Gly Arg Thr Ser Arg Ile Ala Gly Leu Ala Val Ser Leu Thr Lys Pro  
 115 120 125  
 Ser Pro Ala Ser Gly Phe Ser Pro Ser Val Gln Cys Pro Asn Asp Gly  
 130 135 140  
 Phe Gly Val Tyr Ser Asn Ser Tyr Gly Pro Glu Phe Ala His Cys Arg  
 145 150 155 160  
 Glu Ile Gln Trp Asn Ser Leu Gly Asn Gly Leu Ala Tyr Glu Asp Phe  
 165 170 175  
 Ser Phe Pro Ile Phe Leu Leu Glu Asp Glu Asn Glu Thr Lys Val Ile  
 180 185 190  
 Lys Gln Cys Tyr Gln Asp His Asn Leu Ser Gln Asn Gly Ser Ala Pro  
 195 200 205  
 Thr Phe Pro Leu Cys Ala Met Gln Leu Phe Ser His Met His Ala Val  
 210 215 220  
 Ile Ser Thr Ala Thr Cys Met Arg Arg Ser Ser Ile Gln Ser Thr Phe  
 225 230 235 240  
 Ser Ile Asn Pro Glu Ile Val Cys Asp Pro Leu Ser Asp Tyr Asn Val  
 245 250 255  
 Trp Ser Met Leu Lys Pro Ile Asn Thr Thr Gly Thr Leu Lys Pro Asp  
 260 265 270  
 Asp Arg Val Val Val Ala Ala Thr Arg Leu Asp Ser Arg Ser Phe Phe  
 275 280 285  
 Trp Asn Val Ala Pro Gly Ala Glu Ser Ala Val Ala Ser Phe Val Thr  
 290 295 300  
 Gln Leu Ala Ala Ala Glu Ala Leu Gln Lys Ala Pro Asp Val Thr Thr  
 305 310 315 320  
 Leu Pro Arg Asn Val Met Phe Val Phe Phe Gln Gly Glu Thr Phe Asp  
 325 330 335  
 Tyr Ile Gly Ser Ser Arg Met Val Tyr Asp Met Glu Lys Gly Lys Phe  
 340 345 350  
 Pro Val Gln Leu Glu Asn Val Asp Ser Phe Val Glu Leu Gly Gln Val  
 355 360 365

Ala Leu Arg Thr Ser Leu Glu Leu Trp Met His Thr Asp Pro Val Ser  
370 375 380

Gln Lys Asn Glu Ser Val Arg Asn Gln Val Glu Asp Leu Leu Ala Thr  
385 390 395 400

Leu Glu Thr Val Ser Tyr Ala His Leu Asn Leu Gln Gly Gly Glu Val  
405 410 415

Leu

<210> 1163

<211> 709

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1163

Met Ala Thr Ala Gly Gly Gly Ser Gly Ala Asp Pro Gly Ser Arg Gly  
1 5 10 15

Leu Leu Arg Leu Leu Ser Phe Cys Val Leu Leu Ala Gly Leu Cys Arg  
20 25 30

Gly Asn Ser Val Glu Arg Lys Ile Tyr Ile Pro Leu Asn Lys Thr Ala  
35 40 45

Pro Cys Val Arg Leu Leu Asn Ala Thr His Gln Ile Gly Cys Gln Ser  
50 55 60

Ser Ile Ser Gly Asp Thr Gly Val Ile His Val Val Glu Lys Glu Glu  
65 70 75 80

Asp Leu Gln Trp Val Leu Thr Asp Gly Pro Asn Pro Pro Tyr Met Val  
85 90 95

Leu Leu Glu Ser Lys His Phe Thr Arg Asp Leu Met Glu Lys Leu Lys  
100 105 110

Gly Arg Thr Ser Arg Ile Ala Gly Leu Ala Val Ser Leu Thr Lys Pro  
115 120 125

Ser Pro Ala Ser Gly Phe Ser Pro Ser Val Gln Cys Pro Asn Asp Gly  
130 135 140

Phe Gly Val Tyr Ser Asn Ser Tyr Gly Pro Glu Phe Ala His Cys Arg  
145 150 155 160

Glu Ile Gln Trp Asn Ser Leu Gly Asn Gly Leu Ala Tyr Glu Asp Phe  
165 170 175

Ser Phe Pro Ile Phe Leu Leu Glu Asp Glu Asn Glu Thr Lys Val Ile  
180 185 190

Lys Gln Cys Tyr Gln Asp His Asn Leu Ser Gln Asn Gly Ser Ala Pro  
 195 200 205  
 Ser Phe Pro Leu Cys Ala Met Xaa Leu Phe Ser His Met His Ala Val  
 210 215 220  
 Ile Ser Thr Ala Thr Cys Met Arg Arg Ser Ser Ile Gln Ser Thr Phe  
 225 230 235 240  
 Ser Ile Asn Pro Glu Ile Val Cys Asp Pro Leu Ser Asp Tyr Asn Val  
 245 250 255  
 Trp Ser Met Leu Lys Pro Ile Asn Thr Thr Gly Thr Leu Lys Pro Asp  
 260 265 270  
 Asp Arg Val Val Val Ala Ala Thr Arg Leu Asp Ser Arg Ser Phe Phe  
 275 280 285  
 Trp Asn Val Ala Pro Gly Ala Glu Ser Ala Val Ala Ser Phe Val Thr  
 290 295 300  
 Gln Leu Ala Ala Ala Glu Ala Leu Gln Lys Ala Pro Asp Val Thr Thr  
 305 310 315 320  
 Leu Pro Arg Asn Val Met Phe Val Phe Phe Gln Gly Glu Thr Phe Asp  
 325 330 335  
 Tyr Ile Gly Ser Ser Arg Met Val Tyr Asp Met Glu Lys Gly Lys Phe  
 340 345 350  
 Pro Val Gln Leu Glu Asn Val Asp Ser Phe Val Glu Leu Gly Gln Val  
 355 360 365  
 Ala Leu Arg Thr Ser Leu Glu Leu Trp Met His Thr Asp Pro Val Ser  
 370 375 380  
 Gln Lys Asn Glu Ser Val Arg Asn Gln Val Glu Asp Leu Leu Ala Thr  
 385 390 395 400  
 Leu Glu Lys Ser Gly Ala Gly Val Pro Ala Val Ile Leu Arg Arg Pro  
 405 410 415  
 Asn Gln Ser Gln Pro Leu Pro Pro Ser Ser Leu Gln Arg Phe Leu Arg  
 420 425 430  
 Ala Arg Asn Ile Ser Gly Val Val Leu Ala Asp His Ser Gly Ala Phe  
 435 440 445  
 His Asn Lys Tyr Tyr Gln Ser Ile Tyr Asp Thr Ala Glu Asn Ile Asn  
 450 455 460  
 Val Ser Tyr Pro Glu Trp Leu Ser Pro Glu Glu Asp Leu Asn Phe Val  
 465 470 475 480  
 Thr Asp Thr Ala Lys Ala Leu Ala Asp Val Ala Thr Val Leu Gly Arg  
 485 490 495  
 Ala Leu Tyr Glu Leu Ala Gly Gly Thr Asn Phe Ser Asp Thr Val Gln  
 500 505 510

Ala Asp Pro Gln Thr Val Thr Arg Leu Leu Tyr Gly Phe Leu Ile Lys  
515 520 525

Ala Asn Asn Ser Trp Phe Gln Ser Ile Leu Arg Gln Asp Leu Arg Ser  
530 535 540

Tyr Leu Gly Asp Gly Pro Leu Gln His Tyr Ile Ala Val Ser Ser Pro  
545 550 555 560

Thr Asn Thr Thr Tyr Val Val Gln Tyr Ala Leu Ala Asn Leu Thr Gly  
565 570 575

Thr Val Val Asn Leu Thr Arg Glu Gln Cys Gln Asp Pro Ser Lys Val  
580 585 590

Pro Ser Glu Asn Lys Asp Leu Tyr Glu Tyr Ser Trp Val Gln Gly Pro  
595 600 605

Leu His Ser Asn Glu Thr Asp Arg Leu Pro Arg Cys Val Arg Ser Thr  
610 615 620

Ala Arg Leu Ala Arg Ala Leu Ser Pro Ala Phe Glu Leu Ser Gln Trp  
625 630 635 640

Ser Ser Thr Glu Tyr Ser Thr Trp Thr Glu Ser Arg Trp Lys Asp Ile  
645 650 655

Arg Ala Arg Ile Phe Leu Ile Ala Ser Lys Glu Leu Glu Leu Ile Thr  
660 665 670

Leu Thr Val Gly Phe Gly Ile Leu Ile Phe Ser Leu Ile Val Thr Tyr  
675 680 685

Cys Ile Asn Ala Lys Ala Asp Val Leu Phe Ile Ala Pro Arg Glu Pro  
690 695 700

Gly Ala Val Ser Tyr  
705

<210> 1164

<211> 230

<212> PRT

<213> Homo sapiens

<400> 1164

Met Thr Gly Leu Tyr Glu Leu Val Trp Arg Val Leu His Ala Leu Leu  
1 5 10 15

Cys Leu His Arg Thr Leu Thr Ser Trp Leu Arg Val Arg Phe Gly Thr  
20 25 30

Trp Asn Trp Ile Trp Arg Arg Cys Cys Arg Ala Ala Ser Ala Ala Val  
35 40 45

Leu Ala Pro Leu Gly Phe Thr Leu Arg Lys Pro Pro Ala Val Gly Arg  
50 55 60

Asn Arg Arg His His Arg His Pro Arg Gly Gly Ser Cys Leu Ala Ala  
 65 70 75 80  
 Ala His His Arg Met Arg Trp Arg Ala Asp Gly Arg Ser Leu Glu Lys  
 85 90 95  
 Leu Pro Val His Met Gly Leu Val Ile Thr Glu Val Glu Gln Glu Pro  
 100 105 110  
 Ser Phe Ser Asp Ile Ala Ser Leu Val Val Trp Cys Met Ala Val Gly  
 115 120 125  
 Ile Ser Tyr Ile Ser Val Tyr Asp His Gln Gly Ile Phe Lys Arg Asn  
 130 135 140  
 Asn Ser Arg Leu Met Asp Glu Ile Leu Lys Gln Gln Gln Glu Leu Leu  
 145 150 155 160  
 Gly Leu Asp Cys Ser Lys Tyr Ser Pro Glu Phe Ala Asn Ser Asn Asp  
 165 170 175  
 Lys Asp Asp Gln Val Leu Asn Cys His Leu Ala Val Lys Val Leu Ser  
 180 185 190  
 Ala Gly Arg Trp Lys Ser Arg Tyr Cys Lys Ser Cys Ser Gly Leu Leu  
 195 200 205  
 Pro Val Ser Ser Pro Glu Ala Lys Glu Thr His Arg Phe Gly Cys Arg  
 210 215 220  
 Tyr Val Ser Gln Phe Thr  
 225 230

<210> 1165  
 <211> 293  
 <212> PRT  
 <213> Homo sapiens

<400> 1165  
 Met Thr Gly Leu Tyr Glu Leu Val Trp Arg Val Leu His Ala Leu Leu  
 1 5 10 15  
 Cys Leu His Arg Thr Leu Thr Ser Trp Leu Arg Val Arg Phe Gly Thr  
 20 25 30  
 Trp Asn Trp Ile Trp Arg Arg Cys Cys Arg Ala Ala Ser Ala Ala Val  
 35 40 45  
 Leu Ala Pro Leu Gly Phe Thr Leu Arg Lys Pro Pro Ala Val Gly Arg  
 50 55 60  
 Asn Arg Arg His His Arg His Pro Arg Gly Gly Ser Cys Leu Ala Ala  
 65 70 75 80  
 Ala His His Arg Met Arg Trp Arg Ala Asp Gly Arg Ser Leu Glu Lys  
 85 90 95  
 Leu Pro Val His Met Gly Leu Val Ile Thr Glu Val Glu Gln Glu Pro

100                      105                      110  
 Ser Phe Ser Asp Ile Ala Ser Leu Val Val Trp Cys Met Ala Val Gly  
     115                      120                      125  
 Ile Ser Tyr Ile Ser Val Tyr Asp His Gln Gly Ile Phe Lys Arg Asn  
     130                      135                      140  
 Asn Ser Arg Leu Met Asp Glu Ile Leu Lys Gln Gln Gln Glu Leu Leu  
     145                      150                      155                      160  
 Gly Leu Asp Cys Ser Lys Tyr Ser Pro Glu Phe Ala Asn Ser Asn Asp  
     165                      170                      175  
 Lys Asp Asp Gln Val Leu Asn Cys His Leu Ala Val Lys Val Leu Ser  
     180                      185                      190  
 Pro Glu Asp Gly Lys Ala Asp Ile Val Arg Ala Ala Gln Asp Phe Cys  
     195                      200                      205  
 Gln Leu Val Ala Gln Lys Gln Lys Arg Pro Thr Asp Leu Asp Val Asp  
     210                      215                      220  
 Thr Leu Ala Ser Leu Leu Ser Ser Asn Gly Cys Pro Asp Pro Asp Leu  
     225                      230                      235                      240  
 Val Leu Lys Phe Gly Pro Val Asp Ser Thr Leu Gly Phe Leu Pro Trp  
     245                      250                      255  
 His Ile Arg Leu Thr Glu Ile Val Ser Leu Pro Ser His Leu Asn Ile  
     260                      265                      270  
 Ser Tyr Glu Asp Phe Phe Ser Ala Leu Arg Gln Tyr Ala Ala Cys Glu  
     275                      280                      285  
 Gln Arg Leu Gly Lys  
     290

<210> 1166  
 <211> 173  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (85)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (128)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any of the naturally occurring L-amino acids.



<220>  
 <221> SITE  
 <222> (160)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (168)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (172)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1166  
 Met Val Glu Glu Pro Gly Arg Phe Leu Pro Leu Trp Leu His Ile Leu  
           1                  5                  10                  15  
 Leu Ile Thr Val Leu Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn  
                   20                  25                  30  
 Leu Gly Leu Met Ala Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn  
                   35                  40                  45  
 Cys Gly Thr Glu Lys Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile  
           50                  55                  60  
 Arg Arg Lys Gly Asn Tyr Leu Leu Cys Ser Leu Leu Leu Gly Asn Val  
           65                  70                  75                  80  
 Leu Val Asn Thr Xaa Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser  
                   85                  90                  95  
 Gly Leu Met Ala Val Ala Ser Ser Thr Ile Gly Ile Val Ile Phe Gly  
                   100                  105                  110  
 Glu Ile Leu Pro Gln Ala Leu Cys Ser Arg His Gly Leu Ala Val Xaa  
           115                  120                  125  
 Ala Asn Thr Ile Leu Leu Thr Lys Phe Phe Met Leu Leu Thr Phe Pro  
           130                  135                  140  
 Leu Xaa Phe Pro Ile Ser Lys Leu Leu Asp Phe Phe Leu Gly Gln Xaa  
           145                  150                  155                  160  
 Ile Arg Thr Val Tyr Asn Arg Xaa Lys Leu Met Xaa Met  
                   165                  170

<210> 1167  
 <211> 173  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (160)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (168)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (172)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1167

Met Val Glu Glu Pro Gly Arg Phe Leu Pro Leu Trp Leu His Ile Leu  
 1 5 10 15

Leu Ile Thr Val Leu Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn  
 20 25 30

Leu Gly Leu Met Ala Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn  
 35 40 45

Cys Gly Thr Glu Lys Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile  
 50 55 60

Arg Arg Lys Gly Asn Tyr Leu Leu Cys Ser Leu Leu Leu Gly Asn Val  
 65 70 75 80

Leu Val Asn Thr Ser Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser  
 85 90 95

Gly Leu Met Ala Val Ala Ser Ser Thr Ile Gly Ile Val Ile Phe Gly  
 100 105 110

Glu Ile Leu Pro Gln Ala Leu Cys Ser Arg His Gly Leu Ala Val Gly  
 115 120 125

Ala Asn Thr Ile Leu Leu Thr Lys Phe Phe Met Leu Leu Thr Phe Pro  
 130 135 140

Leu Xaa Phe Pro Ile Ser Lys Leu Leu Asp Phe Phe Leu Gly Gln Xaa  
 145 150 155 160

Ile Arg Thr Val Tyr Asn Arg Xaa Lys Leu Met Xaa Met  
 165 170

&lt;210&gt; 1168

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1168

Glu Lys Ala Ala Gly Ala Gly Lys Ser His Leu Ala Ile Val Gln Lys  
1 5 10 15

Val Asn Asn Glu Gly Glu Gly Asp Pro Phe Tyr Glu Val Leu Gly Leu  
20 25 30

Val Thr Leu Glu Asp Val Ile Glu Glu Ile Ile Lys Ser Glu Ile Leu  
35 40 45

Asp Glu Ser Asp Met Tyr Thr Asp Asn Arg Ser Arg Lys Arg Val Ser  
50 55 60

Glu Lys Asn Lys Arg Asp Phe Ser Ala Phe Lys Asp Ala Asp Asn Glu  
65 70 75 80

Leu Lys Val Lys Ile Ser Pro Gln Leu Leu Leu Ala Xaa His Arg Phe  
85 90 95

Leu Ala Thr Glu Val Ser Gln Phe Ser Pro Ser Leu Ile Ser Glu Lys  
100 105 110

Ile Leu Leu Arg Leu Leu Lys Tyr Pro Asp Val Ile Gln Glu Leu Lys  
115 120 125

Phe Asp Glu His Asn Lys Tyr Tyr Ala Arg His Tyr Leu Tyr Thr Arg  
130 135 140

Asn Lys Pro Ala Asp Tyr Phe Ile Leu Ile Leu Gln Gly Lys Val Glu  
145 150 155 160

Val Glu Ala Gly Lys Glu Asn Met Lys Phe Glu Thr Gly Ala Phe Ser  
165 170 175

Tyr Tyr Gly Thr Met Ala Leu Thr Ser Val Pro Ser Asp Arg Ser Pro  
180 185 190

Ala His Pro Thr Pro Leu Ser Arg Ser Ala Ser Leu Ser Tyr Pro Asp  
195 200 205

Arg Thr Asp Val Ser Thr Ala Ala Thr Leu Ala Gly Ser Ser Asn Gln  
210 215 220

Phe Gly Ser Ser Val Leu Gly Gln Tyr Ile Ser Asp Phe Ser Val Arg  
225 230 235 240

Ala Leu Val Asp Leu Gln Tyr Ile Lys Ile Thr Arg Gln Gln Tyr Gln  
245 250 255

Asn Gly Leu Leu Ala Ser Arg Met Glu Asn Ser Pro Gln Phe Pro Ile  
260 265 270

Asp Gly Cys Thr Thr His Met Glu Asn Leu Ala Glu Lys Ser Glu Leu  
275 280 285

Pro Val Val Asp Glu Thr Thr Thr Leu Leu Asn Glu Arg Asn Ser Leu  
290 295 300

Leu His Lys Ala Ser His Glu Asn Ala Ile  
305 310

<210> 1169  
<211> 604  
<212> PRT  
<213> Homo sapiens

<400> 1169  
Met Val Glu Glu Pro Gly Arg Phe Leu Pro Leu Trp Leu His Ile Leu  
1 5 10 15  
Leu Ile Thr Val Leu Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn  
20 25 30  
Leu Gly Leu Met Ala Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn  
35 40 45  
Cys Gly Thr Glu Lys Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile  
50 55 60  
Arg Arg Lys Gly Asn Tyr Leu Leu Cys Ser Leu Leu Leu Gly Asn Val  
65 70 75 80  
Leu Val Asn Thr Ser Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser  
85 90 95  
Gly Leu Met Ala Val Ala Ser Ser Thr Ile Gly Ile Val Ile Phe Gly  
100 105 110  
Glu Ile Leu Pro Gln Ala Leu Cys Ser Arg His Gly Leu Ala Val Gly  
115 120 125  
Ala Asn Thr Ile Leu Leu Thr Lys Phe Phe Met Leu Leu Thr Phe Pro  
130 135 140  
Leu Ser Phe Pro Ile Ser Lys Leu Leu Asp Phe Phe Leu Gly Gln Glu  
145 150 155 160  
Ile Arg Thr Val Tyr Asn Arg Glu Lys Leu Met Glu Met Leu Lys Val  
165 170 175  
Thr Glu Pro Tyr Asn Asp Leu Val Lys Glu Glu Leu Asn Met Ile Gln  
180 185 190  
Gly Ala Leu Glu Leu Arg Thr Lys Thr Val Glu Asp Ile Met Thr Gln  
195 200 205  
Leu Gln Asp Cys Phe Met Ile Arg Ser Asp Ala Ile Leu Asp Phe Asn  
210 215 220  
Thr Met Ser Glu Ile Met Glu Ser Gly Tyr Thr Arg Ile Pro Val Phe  
225 230 235 240  
Glu Asp Glu Gln Ser Asn Ile Val Asp Ile Leu Tyr Val Lys Asp Leu  
245 250 255  
Ala Phe Val Asp Pro Asp Asp Cys Thr Pro Leu Lys Thr Ile Thr Arg

260	265	270
Phe Tyr Asn His Pro Val His	Phe Val Phe His Asp Thr Lys Leu Asp	
275	280	285
Ala Met Leu Glu Glu Phe Lys Lys Gly Lys Ser His Leu Ala Ile Val		
290	295	300
Gln Lys Val Asn Asn Glu Gly Glu Gly Asp Pro Phe Tyr Glu Val Leu		
305	310	315
Gly Leu Val Thr Leu Glu Asp Val Ile Glu Glu Ile Ile Lys Ser Glu		
325	330	335
Ile Leu Asp Glu Ser Asp Met Tyr Thr Asp Asn Arg Ser Arg Lys Arg		
340	345	350
Val Ser Glu Lys Asn Lys Arg Asp Phe Ser Ala Phe Lys Asp Ala Asp		
355	360	365
Asn Glu Leu Lys Val Lys Ile Ser Pro Gln Leu Leu Leu Ala Ala His		
370	375	380
Arg Phe Leu Ala Thr Glu Val Ser Gln Phe Ser Pro Ser Leu Ile Ser		
385	390	395
Glu Lys Ile Leu Leu Arg Leu Leu Lys Tyr Pro Asp Val Ile Gln Glu		
405	410	415
Leu Lys Phe Asp Glu His Asn Lys Tyr Tyr Ala Arg His Tyr Leu Tyr		
420	425	430
Thr Arg Asn Lys Pro Ala Asp Tyr Phe Ile Leu Ile Leu Gln Gly Lys		
435	440	445
Val Glu Val Glu Ala Gly Lys Glu Asn Met Lys Phe Glu Thr Gly Ala		
450	455	460
Phe Ser Tyr Tyr Gly Thr Met Ala Leu Thr Ser Val Pro Ser Asp Arg		
465	470	475
Ser Pro Ala His Pro Thr Pro Leu Ser Arg Ser Ala Ser Leu Ser Tyr		
485	490	495
Pro Asp Arg Thr Asp Val Ser Thr Ala Ala Thr Leu Ala Gly Ser Ser		
500	505	510
Asn Gln Phe Gly Ser Ser Val Leu Gly Gln Tyr Ile Ser Asp Phe Ser		
515	520	525
Val Arg Ala Leu Val Asp Leu Gln Tyr Ile Lys Ile Thr Arg Gln Gln		
530	535	540
Tyr Gln Asn Gly Leu Leu Ala Ser Arg Met Glu Asn Ser Pro Gln Phe		
545	550	555
Pro Ile Asp Gly Cys Thr Thr His Met Glu Asn Leu Ala Glu Lys Ser		
565	570	575
Glu Leu Pro Val Val Asp Glu Thr Thr Thr Leu Leu Asn Glu Arg Asn		

580

585

590

Ser Leu Leu His Lys Ala Ser His Glu Asn Ala Ile  
595 600

&lt;210&gt; 1170

&lt;211&gt; 189

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (169)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (172)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (180)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1170

Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu  
1 5 10 15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala  
20 25 30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala  
35 40 45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp  
50 55 60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp  
65 70 75 80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly  
85 90 95

Arg Leu Arg Asp Val Ala Ala Leu Asn Gly Leu Tyr Arg Val Arg Ile  
100 105 110

Pro Arg Arg Pro Gly Ala Leu Asp Gly Leu Glu Ala Gly Gly Tyr Val  
115 120 125

Ser Ser Phe Val Pro Ala Cys Ser Leu Val Glu Ser His Leu Ser Asp  
130 135 140

Gln Leu Thr Leu His Val Asp Val Ala Gly Asn Val Val Gly Val Ser  
145 150 155 160

Val Val Thr His Pro Met Ala Pro Xaa Ser Pro Xaa Gly Phe Pro Leu  
165 170 175

Pro Trp Ser Xaa Ala Glu Ile Leu Ala Thr Ile Gln Phe  
180 185

<210> 1171  
<211> 117  
<212> PRT  
<213> Homo sapiens

<400> 1171  
Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Met Ala  
1 5 10 15  
Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala Gly Thr  
20 25 30  
Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala Cys Gly  
35 40 45  
Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Leu Ala Thr Met  
50 55 60  
Pro Val Leu Thr Ser His Pro Pro Thr Pro Ser Pro Cys Ser Leu Gly  
65 70 75 80  
Thr Cys Arg Leu Leu Ser Ser Leu Cys Ala Phe Val Pro Gly Gly Leu  
85 90 95  
Thr Leu Leu Ser Leu Ala Gly Leu Gly Gly Pro Val Gln Ala Pro Ala  
100 105 110  
Ala Pro Pro Ser Leu  
115

<210> 1172  
<211> 241  
<212> PRT  
<213> Homo sapiens

<400> 1172  
Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu  
1 5 10 15  
Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala  
20 25 30  
Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala  
35 40 45  
Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp  
50 55 60  
Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp  
65 70 75 80  
Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly

85 90 95  
 Arg Leu Arg Asp Val Ala Ala Leu Asn Gly Leu Tyr Arg Val Arg Ile  
 100 105 110  
 Pro Arg Arg Pro Gly Ala Leu Asp Gly Leu Glu Ala Gly Gly Tyr Val  
 115 120 125  
 Ser Ser Phe Val Pro Ala Cys Ser Leu Val Glu Ser His Leu Ser Asp  
 130 135 140  
 Gln Leu Thr Leu His Val Asp Val Ala Gly Asn Val Val Gly Val Ser  
 145 150 155 160  
 Val Val Thr His Pro Met Ala Pro Cys Ser Pro Arg Gly Phe Pro Pro  
 165 170 175  
 Ala His Gly Val Glu Pro Glu Ile Leu Ala Thr Met Pro Val Leu Thr  
 180 185 190  
 Ser His Pro Pro Thr Pro Ser Pro Cys Ser Leu Gly Thr Cys Arg Leu  
 195 200 205  
 Leu Ser Ser Leu Cys Ala Phe Val Pro Gly Gly Leu Thr Leu Leu Ser  
 210 215 220  
 Leu Ala Gly Leu Gly Gly Pro Val Gln Ala Pro Ala Ala Pro Pro Ser  
 225 230 235 240  
 Leu

<210> 1173  
 <211> 265  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (215)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1173  
 Met Phe Leu Leu Phe Leu Leu Thr Cys Glu Leu Ala Ala Glu Val Ala  
 1 5 10 15  
 Ala Glu Val Glu Lys Ser Ser Asp Gly Pro Gly Ala Ala Gln Glu Pro  
 20 25 30  
 Thr Trp Leu Thr Asp Val Pro Ala Ala Met Glu Phe Ile Ala Ala Thr  
 35 40 45  
 Glu Val Ala Val Ile Gly Phe Phe Gln Asp Leu Glu Ile Pro Ala Val  
 50 55 60  
 Pro Ile Leu His Ser Met Val Gln Lys Phe Pro Gly Val Ser Phe Gly  
 65 70 75 80



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<210> 1174
<211> 265
<212> PRT
<213> Homo sapiens
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645

85 90 95  
 Thr Ile Cys Leu Phe Arg Leu Val Asp Asn Glu Gln Leu Asn Leu Glu  
 100 105 110  
 Asp Glu Asp Ile Glu Ser Ile Asp Ala Thr Lys Leu Ser Arg Phe Ile  
 115 120 125  
 Glu Ile Asn Ser Leu His Met Val Thr Glu Tyr Asn Pro Val Thr Val  
 130 135 140  
 Ile Gly Leu Phe Asn Ser Val Ile Gln Ile His Leu Leu Ile Met  
 145 150 155 160  
 Asn Lys Ala Ser Pro Glu Tyr Glu Glu Asn Met His Arg Tyr Gln Lys  
 165 170 175  
 Ala Ala Lys Leu Phe Gln Gly Lys Ile Leu Phe Ile Leu Val Asp Ser  
 180 185 190  
 Gly Met Lys Glu Asn Gly Lys Val Ile Ser Phe Phe Lys Leu Lys Glu  
 195 200 205  
 Ser Gln Leu Pro Ala Leu Ala Ile Tyr Gln Thr Leu Asp Asp Glu Trp  
 210 215 220  
 Asp Thr Leu Pro Thr Ala Glu Val Ser Val Glu His Val Gln Asn Phe  
 225 230 235 240  
 Cys Asp Gly Phe Leu Ser Gly Lys Leu Leu Lys Glu Asn Arg Glu Ser  
 245 250 255  
 Glu Gly Lys Thr Pro Lys Val Glu Leu  
 260 265

<210> 1175  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 1175  
 Met Arg Arg Thr Thr Leu Ser Leu Leu Trp Thr Gly Ser Leu Pro Ala  
 1 5 10 15  
 Pro Pro Ala Thr Thr Ser Gly Gly Ala Ala Cys Pro Ser Gly Arg Arg  
 20 25 30  
 Tyr Pro Gly Ala Gly Asn Ala Gly Ser Ala Thr Ser Gln Cys Gln Leu  
 35 40 45  
 Thr Arg Cys Gly Ala Trp Leu Ser Ser Thr Ala Arg Ser Val Gly Thr  
 50 55 60  
 Thr Ser Gly Ala Gly His Arg Trp Gly Pro Arg Pro Pro Ala Thr Gly  
 65 70 75 80  
 Ala Ala Ser Pro Cys Ile Gln His Gly Ser Ser Pro Arg Ala Gly Thr  
 85 90 95

Gly Thr Arg Ile Ala Ala Ala Pro Thr Leu Thr Pro Ala Gln Leu Pro  
 100 105 110  
 Thr Ala Thr Thr Gly Glu Ser Pro Thr Cys Leu Gly His Pro Val Leu  
 115 120 125  
 Thr Pro Arg Ala Gly Ser Arg Thr Thr Cys Pro Lys Cys Ser Thr Pro  
 130 135 140  
 Ala Thr Leu Thr Leu Ala Val Ala Pro Leu Trp Pro Pro Ala  
 145 150 155

<210> 1176  
 <211> 291  
 <212> PRT  
 <213> Homo sapiens

<400> 1176  
 Met Ser Gln Glu Gly Val Glu Leu Glu Lys Ser Val Arg Arg Leu Arg  
 1 5 10 15  
 Glu Lys Phe His Gly Lys Val Ser Ser Lys Lys Ala Gly Ala Leu Met  
 20 25 30  
 Arg Lys Phe Gly Ser Asp His Thr Gly Val Gly Arg Ser Ile Val Tyr  
 35 40 45  
 Gly Val Lys Gln Lys Asp Gly Gln Glu Leu Ser Asn Asp Leu Asp Ala  
 50 55 60  
 Gln Asp Pro Pro Glu Asp Met Lys Gln Asp Arg Asp Ile Gln Ala Val  
 65 70 75 80  
 Ala Thr Ser Leu Leu Pro Leu Thr Glu Ala Asn Leu Arg Met Phe Gln  
 85 90 95  
 Arg Ala Gln Asp Asp Leu Ile Pro Ala Val Asp Arg Gln Phe Ala Cys  
 100 105 110  
 Ser Ser Cys Asp His Val Trp Trp Arg Arg Val Pro Gln Arg Lys Glu  
 115 120 125  
 Val Ser Arg Cys Arg Lys Cys Arg Lys Arg Tyr Glu Pro Val Pro Ala  
 130 135 140  
 Asp Lys Met Trp Gly Leu Ala Glu Phe His Cys Pro Lys Cys Arg His  
 145 150 155 160  
 Asn Phe Arg Gly Trp Ala Gln Met Gly Ser Pro Ser Pro Cys Tyr Gly  
 165 170 175  
 Cys Gly Phe Pro Val Tyr Pro Thr Arg Ile Leu Pro Pro Arg Trp Asp  
 180 185 190  
 Arg Asp Pro Asp Arg Arg Ser Thr His Thr His Ser Cys Ser Ala Ala  
 195 200 205

Asp Cys Tyr Asn Arg Arg Glu Pro His Val Pro Gly Thr Ser Cys Ala  
 210 215 220  
 His Pro Lys Ser Arg Lys Gln Asn His Leu Pro Lys Val Leu His Pro  
 225 230 235 240  
 Ser Asn Pro His Ile Ser Ser Gly Ser Thr Val Ala Thr Cys Leu Ser  
 245 250 255  
 Gln Gly Gly Leu Leu Glu Asp Leu Asp Asn Leu Ile Leu Glu Asp Leu  
 260 265 270  
 Lys Glu Glu Glu Glu Glu Glu Glu Glu Val Glu Asp Glu Glu Gly Gly  
 275 280 285  
 Pro Arg Glu  
 290

<210> 1177  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 1177  
 Met Arg Gly Thr Gln Leu Val Leu Leu Ala Leu Val Leu Ala Ala Cys  
 1 5 10 15  
 Gly Glu Leu Ala Pro Ala Leu Arg Cys Tyr Val Cys Pro Glu Pro Thr  
 20 25 30  
 Gly Val Ser Asp Cys Val Thr Ile Ala Thr Cys Thr Thr Asn Glu Thr  
 35 40 45  
 Met Cys Lys Thr Thr Leu Tyr Ser Arg Glu Ile Val Tyr Pro Phe Gln  
 50 55 60  
 Gly Asp Ser Thr Val Thr Lys Ser Cys Ala Ser Lys Cys Lys Pro Ser  
 65 70 75 80  
 Asp Val Asp Gly Ile Gly Gln Thr Leu Pro Val Ser Cys Cys Asn Thr  
 85 90 95  
 Glu Leu Cys Asn Val Asp Gly Ala Pro Ala Leu Asn Ser Leu His Cys  
 100 105 110  
 Gly Ala Leu Thr Leu Leu Pro Leu Leu Ser Leu Arg Leu  
 115 120 125

<210> 1178  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1178

Gly Thr Gln Xaa Ala Leu  
1 5

<210> 1179

<211> 125

<212> PRT

<213> Homo sapiens

<400> 1179

Met Arg Gly Thr Gln Leu Val Leu Leu Ala Leu Val Leu Ala Ala Cys  
1 5 10 15

Gly Glu Leu Ala Pro Ala Leu Arg Cys Tyr Val Cys Pro Glu Pro Thr  
20 25 30

Gly Val Ser Asp Cys Val Thr Ile Ala Thr Cys Thr Thr Asn Glu Thr  
35 40 45

Met Cys Lys Thr Thr Leu Tyr Ser Arg Glu Ile Val Tyr Pro Phe Gln  
50 55 60

Gly Asp Ser Thr Val Thr Lys Ser Cys Ala Ser Lys Cys Lys Pro Ser  
65 70 75 80

Asp Val Asp Gly Ile Gly Gln Thr Leu Pro Val Ser Cys Cys Asn Thr  
85 90 95

Glu Leu Cys Asn Val Asp Gly Ala Pro Ala Leu Asn Ser Leu His Cys  
100 105 110

Gly Ala Leu Thr Leu Leu Pro Leu Leu Ser Leu Arg Leu  
115 120 125

<210> 1180

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1180

Met Pro Asp Val Gln Gly Pro Trp His Pro Ala His Pro Pro Ile Pro  
1 5 10 15

Ser Ala Ala Leu Cys Leu Leu Trp Pro His Cys Leu Ala Ala Pro Lys

20                      25                      30  
 Tyr Ala Arg Pro Arg Cys Leu Leu Val Phe Val Leu Cys Asp Arg Ser  
                     35                      40                      45  
 Ala Trp Asn Ile Leu Leu Tyr Ser Val Gly Ser Lys Val Ser Gly Leu  
                     50                      55                      60  
 Cys Ser Asn Cys Ser Leu Val Pro Gly Val Val Ala His Thr Cys Asn  
                     65                      70                      75                      80  
 Pro Lys Val Pro Leu Gly Leu Gln Gly Cys Glu Leu Pro Cys Pro Ala  
                     85                      90                      95  
 Glu His Leu Ile Phe Ser Lys Xaa Leu Ser Ser Cys Ala Thr Trp Ala  
                     100                      105                      110  
 His Cys Phe Leu Gly Leu Ser Xaa Cys Trp Cys Leu His Pro His Pro  
                     115                      120                      125  
 His Pro Ser Trp  
                     130

<210> 1181  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 1181  
 Ser Gly Leu Ala Trp Ala Leu Leu Leu Ser Leu Pro Gly Gly Leu Arg  
                     1                      5                      10                      15  
 Ser Ser Ser Ala Arg Leu Pro Pro Glu Pro Phe His Gly Gln Gly Leu  
                     20                      25                      30  
 Ser Ser Val Gly Ala Ile Arg Arg Arg Val Cys Arg Ser Val Arg Leu  
                     35                      40                      45  
 Gly Asp Pro Trp Gly Met Glu Gly Thr Thr Arg Pro Phe Pro Ser Val  
                     50                      55                      60  
 Pro Cys Gln Ala Val Leu Thr Ala Ala Ser Ser Gln Gly Arg Lys Pro  
                     65                      70                      75                      80  
 Gly Gln Arg Gln Arg Leu Leu Val Pro Ser Ile Pro  
                     85                      90

<210> 1182  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 1182  
 Thr Phe Arg Leu Val Ser Ala His Leu Lys Thr Arg Lys Leu Ile Asn  
                     1                      5                      10                      15

Pro Glu Ala Ala Glu Arg Arg Trp Arg Asp Trp Asp Ser Arg Gln Gly  
                   20                                  25                                  30  
 Trp Leu Ser Val Lys Met Gln Arg Val Ser Gly Leu Leu Ser Trp Thr  
                   35                                  40                                  45  
 Leu Ser Arg Val Leu Trp Leu Ser Gly Leu Ser Glu Pro Gly Ala Ala  
                   50                                  55                                  60  
 Arg Gln Pro Arg Ile Met Glu Glu Lys Ala Leu Glu Val Tyr Asp Leu  
                   65                                  70                                  75                                  80  
 Ile Arg Thr Ile Arg Asp Pro Glu Lys Pro Asn Thr Leu Glu Glu Leu  
                   85                                  90                                  95  
 Glu Val Val Ser Glu Ser Cys Val Glu Val Gln Glu Ile Asn Glu Glu  
                   100                                  105                                  110  
 Glu Tyr Leu Val Ile Ile Arg Phe Thr Pro Thr Val Pro His Cys Ser  
                   115                                  120                                  125  
 Leu Ala Thr Leu Ile Val Gly Asn Leu His Phe  
                   130                                  135

&lt;210&gt; 1183

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1183

Met Pro Asp Val Gln Gly Pro Trp His Pro Ala His Pro Pro Ile Pro  
   1                                  5                                  10                                  15  
 Ser Ala Ala Leu Cys Leu Leu Trp Pro His Cys Leu Ala Ala Pro Lys  
                   20                                  25                                  30  
 Tyr Ala Arg Pro Arg Cys Leu Leu Val Phe Val Leu Cys Asp Arg Ser  
                   35                                  40                                  45  
 Ala Trp Asn Ile Leu Leu Tyr Ser Val Gly Ser Lys Val Ser Gly Leu  
                   50                                  55                                  60  
 Cys Ser Asn Cys Ser Leu Val Pro Gly Val Val Ala His Thr Cys Asn  
                   65                                  70                                  75                                  80  
 Pro Lys Val Pro Leu Gly Leu Gln Gly Cys Glu Leu Pro Cys Pro Ala  
                   85                                  90                                  95  
 Glu His Leu Ile Phe Ser Lys Cys Leu Ser Ser Cys Ala Thr Trp Ala  
                   100                                  105                                  110  
 His Cys Phe Leu Gly Leu Ser Cys Cys Trp Cys Leu His Pro His Pro  
                   115                                  120                                  125  
 His Pro Ser Trp Pro Ala Pro Phe Leu Ser Arg Trp Ala His Val  
                   130                                  135                                  140

<210> 1184  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 1184  
 Met Gly Gln Gly Ala Cys Lys Asn Met Ser Val Gly Ser  
           1                          5                          10

<210> 1185  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 1185  
 Asn Ser Glu Lys Gly Gln Lys Lys Gln Arg Gly Pro Arg Trp Ile Cys  
           1                          5                          10                          15

Gln Leu Phe Cys Arg Cys Phe Leu Pro Leu Leu Trp Val Val Cys Ser  
                           20                          25                          30

Pro Leu Gln Thr Ser Ala Arg Arg Glu Gly Leu Asn Leu Pro Ala Pro  
                           35                          40                          45

Gln Asp Leu Leu Pro Ser Gly Pro Ser Pro Ala Leu Arg Ser Leu Pro  
           50                          55                          60

Asp Arg Arg Val Asp Arg Ala Thr Trp Ala Ala Arg Glu Thr His Gly  
           65                          70                          75                          80

Gly Pro Pro Cys Gly Gln Pro Cys Gln Leu Pro Pro Ser Pro Glu Leu  
                           85                          90                          95

His Leu His Leu Glu Glu  
                           100

<210> 1186  
 <211> 259  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1186  
 Ala Gly Ala Trp Val Ser Leu Gly Pro Cys Leu Phe Pro Ala Pro Ala  
           1                          5                          10                          15

Asp Ser Glu Gln Arg Pro Trp Val Arg Arg Val Gly Val Gly Pro Leu  
                           20                          25                          30

Pro Ala Glu Pro Gly Gln Gly Glu Leu Gln Glu Ser Pro Leu Cys Pro  
                           35                          40                          45



Cys Ser Trp Asn Val Pro Gln Arg Pro His Leu Lys Gly Xaa Cys Ala  
 50 55 60  
 Gly Gly Val Ala Gln Ser His Thr Ala Ser Thr Leu Ser Ser Gly Thr  
 65 70 75 80  
 Gly Asp Ser Gly Cys Ser Gly Lys Gly Leu Leu Asp Val Thr Tyr Asn  
 85 90 95  
 Ser Val Arg Leu Glu Thr Asp Ala Gly Gly Gly Arg Ala Gly Pro Pro  
 100 105 110  
 Gly Ile Thr Asp His Arg Lys Met Gly Gly Gly Ser Arg Gly Pro Ala  
 115 120 125  
 Pro Thr Pro Ser Cys Leu Thr Leu Leu Ser Cys Pro His Pro Cys Ala  
 130 135 140  
 Phe Val Pro Glu Thr Arg Val Ala Thr Gln Ala Gly Pro Gly Ser Ser  
 145 150 155 160  
 Leu Ile Leu Pro Leu Pro Ser Glu Pro Cys Ser Ser Leu Pro Ser Pro  
 165 170 175  
 Leu Pro Pro Leu Pro Arg Arg Val Thr Ser Asp Arg Ala Pro Leu Ala  
 180 185 190  
 Ile Gln Gly Gly Ser Arg Gly Leu Asp Arg Arg Ala Arg Arg Leu Pro  
 195 200 205  
 Ala Val Ala Gly Ala Ser Cys Pro Cys Arg Val Gly Glu Leu Ser Gly  
 210 215 220  
 Arg Glu Pro Tyr Leu Pro Ser Ala Lys Thr Val Lys Val Tyr Arg Leu  
 225 230 235 240  
 Phe Thr Asp Phe Tyr Leu Asn Cys Lys Ser Ala Asp Phe Val Asn Val  
 245 250 255  
 Leu Gly Val

<210> 1187  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

<400> 1187  
 Met Gly Gln Gly Ala Cys Gln Lys Tyr Val Cys Trp Phe Leu Asn Val  
 1 5 10 15  
 Val Cys Pro Cys Pro Pro Gly Ser Gly Arg Val His Val Ser Pro His  
 20 25 30  
 Thr Cys Ala Arg Glu Gly Ala Ser Trp Arg Gly Asp Ser Arg Ala Arg  
 35 40 45

Gly Leu His Leu Trp Leu Pro Leu Ala Ser Leu Gly Gly Pro Gly Leu  
 50 55 60  
 Pro Gly Ser Gln Ala Leu Ser Cys Gly Thr Trp His Leu Ala Asp Gln  
 65 70 75 80  
 Leu Ala Gly Arg Lys Ile Gly Gly His Arg Ala Gly Gly Gln Cys Pro  
 85 90 95  
 Leu Pro Val Ser Ile Arg Ser Thr Cys His Cys Met Gln Pro Val Gly  
 100 105 110  
 Thr Phe Leu Ala Val Arg Asn  
 115

&lt;210&gt; 1188

&lt;211&gt; 177

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1188

Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro  
 1 5 10 15  
 Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly  
 20 25 30  
 Leu Leu Gly Glu Lys Thr Arg Gln Val Ser Leu Glu Val Ile Pro Asn  
 35 40 45  
 Trp Leu Gly Pro Leu Gln Asn Leu Leu His Ile Arg Ala Val Gly Thr  
 50 55 60  
 Asn Ser Thr Leu His Tyr Val Trp Ser Ser Leu Gly Pro Leu Ala Val  
 65 70 75 80  
 Val Met Val Ala Thr Asn Thr Pro His Ser Thr Leu Ser Val Asn Trp  
 85 90 95  
 Ser Leu Leu Leu Ser Pro Glu Pro Asp Gly Gly Leu Met Val Leu Pro  
 100 105 110  
 Lys Asp Ser Ile Gln Phe Ser Ser Ala Leu Val Phe Thr Arg Leu Leu  
 115 120 125  
 Glu Phe Asp Ser Thr Asn Val Ser Asp Thr Ala Ala Lys Pro Leu Gly  
 130 135 140  
 Arg Pro Tyr Pro Pro Tyr Ser Leu Ala Asp Phe Ser Trp Asn Asn Ile  
 145 150 155 160  
 Thr Asp Ser Leu Asp Pro Ala Thr Leu Ser Ala Thr Phe Gln Gly Thr  
 165 170 175  
 Pro

&lt;210&gt; 1189

&lt;211&gt; 330

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1189

Arg Pro Thr Arg Pro Leu Asn Cys Gly Arg Met Arg Gly Ser Val Glu  
 1 5 10 15

Cys Thr Trp Gly Trp Gly His Cys Ala Pro Ser Pro Leu Leu Leu Trp  
 20 25 30

Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly Leu Leu Gly Glu Lys Thr  
 35 40 45

Arg Gln Leu Leu Glu Phe Asp Ser Thr Asn Val Ser Asp Thr Ala Ala  
 50 55 60

Lys Pro Leu Gly Arg Pro Tyr Pro Pro Tyr Ser Leu Ala Asp Phe Ser  
 65 70 75 80

Trp Asn Asn Ile Thr Asp Ser Leu Asp Pro Ala Thr Leu Ser Ala Thr  
 85 90 95

Phe Gln Gly His Pro Met Asn Asp Pro Thr Arg Thr Phe Ala Asn Gly  
 100 105 110

Ser Leu Ala Phe Arg Val Gln Ala Phe Ser Arg Ser Ser Arg Pro Ala  
 115 120 125

Gln Pro Pro Arg Leu Leu His Thr Ala Asp Thr Cys Gln Leu Glu Val  
 130 135 140

Ala Leu Ile Gly Ala Ser Pro Arg Gly Asn Arg Ser Leu Phe Gly Leu  
 145 150 155 160

Glu Val Ala Thr Leu Gly Gln Gly Pro Asp Cys Pro Ser Met Gln Glu  
 165 170 175

Gln His Ser Ile Asp Asp Glu Tyr Ala Pro Ala Val Phe Gln Leu Asp  
 180 185 190

Gln Leu Leu Trp Gly Ser Leu Pro Ser Gly Phe Ala Gln Trp Arg Pro  
 195 200 205

Val Ala Tyr Ser Gln Lys Pro Gly Gly Arg Glu Ser Ala Leu Pro Cys  
 210 215 220

Gln Ala Ser Pro Leu His Pro Ala Leu Ala Tyr Ser Leu Pro Gln Ser  
 225 230 235 240

Pro Ile Val Arg Ala Phe Phe Gly Ser Gln Asn Asn Phe Cys Ala Phe  
 245 250 255

Asn Leu Thr Phe Gly Ala Ser Thr Gly Pro Gly Tyr Trp Asp Gln His  
 260 265 270

Tyr Leu Ser Trp Ser Met Leu Leu Gly Val Gly Phe Pro Pro Val Asp  
 275 280 285

Gly Leu Ser Pro Leu Val Leu Gly Ile Met Ala Val Ala Leu Gly Ala  
 290 295 300

Pro Gly Leu Met Leu Leu Gly Gly Gly Leu Val Leu Leu Leu His His  
 305 310 315 320

Lys Lys Tyr Ser Glu Tyr Gln Ser Ile Asn  
 325 330

<210> 1190  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 1190  
 Met Ala Ala Ser Arg Trp Ala Arg Lys Ala Val Val Leu Leu Cys Ala  
 1 5 10 15

Ser Asp Leu Leu Leu Leu Leu Leu Leu Leu Pro Pro Pro Gly Ser Cys  
 20 25 30

Ala Ala Glu Ala Arg Pro Gly Arg Pro Thr Ser Leu Pro His Leu Pro  
 35 40 45

Gly Arg Arg Arg Arg Ile Phe Ala Ile Thr Met Met Gln Thr Trp Arg  
 50 55 60

Val Phe Trp Ser Asn Gly Arg Lys Met Met Thr Leu Lys Lys Glu Ile  
 65 70 75 80

Phe Gln Ser Thr Arg Asp Leu Gln His Leu Ser Thr Ser Gln Arg  
 85 90 95

<210> 1191  
 <211> 234  
 <212> PRT  
 <213> Homo sapiens

<400> 1191  
 Met Ala Ala Ser Arg Trp Ala Arg Lys Ala Val Val Leu Leu Cys Ala  
 1 5 10 15

Ser Asp Leu Leu Leu Leu Leu Leu Leu Leu Pro Pro Pro Gly Ser Cys  
 20 25 30

Ala Ala Glu Gly Ser Pro Gly Thr Pro Asp Glu Ser Thr Pro Pro Pro  
 35 40 45

Arg Lys Lys Lys Lys Asp Ile Arg Asp Tyr Asn Asp Ala Asp Met Ala  
 50 55 60

Arg Leu Leu Glu Gln Trp Glu Lys Asp Asp Asp Ile Glu Glu Gly Asp  
 65 70 75 80

Leu Pro Glu His Lys Arg Pro Ser Ala Pro Val Asp Phe Ser Lys Ile

85 90 95  
 Asp Pro Ser Lys Pro Glu Ser Ile Leu Lys Met Thr Lys Lys Gly Lys  
 100 105 110  
 Thr Leu Met Met Phe Val Thr Val Ser Gly Ser Pro Thr Glu Lys Glu  
 115 120 125  
 Thr Glu Glu Ile Thr Ser Leu Trp Gln Gly Ser Leu Phe Asn Ala Asn  
 130 135 140  
 Tyr Asp Val Gln Arg Phe Ile Val Gly Ser Asp Arg Ala Ile Phe Met  
 145 150 155 160  
 Leu Arg Asp Gly Ser Tyr Ala Trp Glu Ile Lys Asp Phe Leu Val Gly  
 165 170 175  
 Gln Asp Arg Cys Ala Asp Val Thr Leu Glu Gly Gln Val Tyr Pro Gly  
 180 185 190  
 Lys Gly Gly Gly Ser Lys Glu Lys Asn Lys Thr Lys Gln Asp Lys Gly  
 195 200 205  
 Lys Lys Lys Lys Glu Gly Asp Leu Lys Ser Arg Ser Ser Lys Glu Glu  
 210 215 220  
 Asn Arg Ala Gly Asn Lys Arg Glu Asp Leu  
 225 230

<210> 1192  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 1192  
 Met Arg Ala Leu Ser Gly Gly Glu Arg Ser Phe Ser Thr Val Cys Phe  
 1 5 10 15  
 Ile Leu Ser Leu Trp Ser Ile Ala Glu Ser Pro Phe Arg Cys Leu Asp  
 20 25 30  
 Glu Phe Asp Val Tyr Met Asp Met Val Asn Arg Arg Ile Ala Met Asp  
 35 40 45  
 Leu Ile Leu Lys Met Ala Asp Ser Gln Arg Phe Arg Gln Phe Ile Leu  
 50 55 60  
 Leu Thr Pro Gln Ser Met Ser Ser Leu Pro Ser Ser Lys Leu Ile Arg  
 65 70 75 80  
 Ile Leu Arg Met Ser Asp Pro Glu Arg Gly Gln Thr Thr Leu Pro Phe  
 85 90 95  
 Arg Pro Val Thr Gln Glu Glu Asp Asp Asp Gln Arg  
 100 105



50                      55                      60  
 Ser Ser Thr Thr Leu Gly Pro Ile Phe Trp Leu Leu Val Lys Ser Pro  
 65                      70                      75                      80  
 Glu Leu Ala Ala Gln Pro Ser Thr Tyr Leu Ala Val Ala Glu Glu Leu  
 85                      90                      95  
 Ala Asp Val Ser Gly Lys Tyr Phe Asp Gly Leu Lys Gln Lys Ala Pro  
 100                      105                      110  
 Ala Pro Glu Ala Glu Asp Glu Glu Val Ala Arg Arg Leu Trp Ala Glu  
 115                      120                      125  
 Ser Ala Arg Leu Val Gly Leu Glu Ala Pro Ser Val Arg Glu Gln Pro  
 130                      135                      140  
 Leu Pro Arg  
 145  
  
 <210> 1195  
 <211> 240  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1195  
 Met Ser Arg Tyr Leu Leu Pro Leu Ser Ala Leu Gly Thr Val Ala Gly  
 1                      5                      10                      15  
 Ala Ala Val Leu Leu Lys Asp Tyr Val Thr Gly Gly Ala Cys Pro Ser  
 20                      25                      30  
 Lys Ala Thr Ile Pro Gly Lys Thr Val Ile Val Thr Gly Ala Asn Thr  
 35                      40                      45  
 Gly Ile Gly Lys Gln Thr Ala Leu Glu Leu Ala Arg Arg Gly Gly Asn  
 50                      55                      60  
 Ile Ile Leu Ala Cys Arg Asp Met Glu Lys Cys Glu Ala Ala Ala Lys  
 65                      70                      75                      80  
 Asp Ile Arg Gly Glu Thr Leu Asn His His Val Asn Ala Arg His Leu  
 85                      90                      95  
 Asp Leu Ala Ser Leu Lys Ser Ile Arg Glu Phe Ala Ala Lys Ile Ile  
 100                      105                      110  
 Glu Glu Glu Glu Arg Val Asp Ile Leu Ile Asn Asn Ala Gly Val Met  
 115                      120                      125  
 Arg Cys Pro His Trp Thr Thr Glu Asp Gly Phe Glu Met Gln Phe Gly  
 130                      135                      140  
 Val Asn His Leu Gly His Phe Leu Leu Thr Asn Leu Leu Leu Asp Lys  
 145                      150                      155                      160  
 Leu Lys Ala Ser Ala Pro Ser Arg Ile Ile Asn Leu Ser Ser Leu Ala  
 165                      170                      175

His Val Ala Gly His Ile Asp Phe Asp Asp Leu Asn Trp Gln Thr Arg  
 180 185 190  
 Lys Tyr Asn Thr Lys Ala Ala Tyr Cys Gln Ser Lys Leu Ala Ile Val  
 195 200 205  
 Leu Phe Thr Lys Glu Leu Ser Arg Arg Leu Gln Gly Thr Gly Ala Leu  
 210 215 220  
 Gly Ser Ala Ser Leu Leu Leu Tyr Ser Glu Pro Arg Ala Ala Phe Pro  
 225 230 235 240

&lt;210&gt; 1196

&lt;211&gt; 174

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (142)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (160)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (162)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1196

Met Ala Val Ala Arg Leu Ala Ala Val Ala Ala Trp Val Pro Cys Arg  
 1 5 10 15

Ser Trp Gly Trp Ala Ala Val Pro Phe Gly Pro His Arg Gly Leu Ser  
 20 25 30

Val Leu Leu Ala Arg Ile Pro Gln Arg Ala Pro Arg Trp Leu Pro Ala  
 35 40 45

Cys Arg Gln Lys Thr Ser Leu Ser Phe Leu Asn Arg Pro Asp Leu Pro  
 50 55 60

Asn Leu Ala Tyr Lys Lys Leu Lys Gly Lys Ser Pro Gly Ile Ile Phe  
 65 70 75 80

Ile Pro Gly Tyr Leu Ser Tyr Met Asn Gly Thr Lys Ala Leu Ala Ile  
 85 90 95

Glu Glu Phe Cys Lys Ser Leu Gly His Ala Cys Ile Arg Phe Asp Tyr  
 100 105 110



Ser Gly Val Gly Ser Ser Asp Gly Asn Ser Glu Glu Ser Thr Leu Gly  
 115 120 125

Lys Trp Arg Lys Asp Val Leu Ser Ile Ile Asp Asp Leu Xaa Asp Gly  
 130 135 140

Pro Gln Ile Leu Val Gly Ser Ser Leu Gly Gly Trp Leu Met Leu Xaa  
 145 150 155 160

Ala Xaa Asn Cys Thr Thr Arg Glu Gly Leu Ala Leu Ile Gly  
 165 170

<210> 1197

<211> 160

<212> PRT

<213> Homo sapiens

<400> 1197

Ile Leu Val Gly Ser Ser Leu Gly Gly Trp Leu Met Leu His Ala Ala  
 1 5 10 15

Ile Ala Arg Pro Glu Lys Val Val Ala Leu Ile Gly Val Ala Thr Ala  
 20 25 30

Ala Asp Thr Leu Val Thr Lys Phe Asn Gln Leu Pro Val Glu Leu Lys  
 35 40 45

Lys Glu Val Glu Met Lys Gly Val Trp Ser Met Pro Ser Lys Tyr Ser  
 50 55 60

Glu Glu Gly Val Tyr Asn Val Gln Tyr Ser Phe Ile Lys Glu Ala Glu  
 65 70 75 80

His His Cys Leu Leu His Ser Pro Ile Pro Val Asn Cys Pro Ile Arg  
 85 90 95

Leu Leu His Gly Met Lys Asp Asp Ile Val Pro Trp His Thr Ser Met  
 100 105 110

Gln Val Ala Asp Arg Val Leu Ser Thr Asp Val Asp Val Ile Leu Arg  
 115 120 125

Lys His Ser Asp His Arg Met Arg Glu Lys Ala Asp Ile Gln Leu Leu  
 130 135 140

Val Tyr Thr Ile Asp Asp Leu Ile Asp Lys Leu Ser Thr Ile Val Asn  
 145 150 155 160

<210> 1198

<211> 306

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1198

Met Ala Val Ala Arg Leu Ala Ala Val Ala Ala Trp Val Pro Cys Arg  
 1 5 10 15  
 Ser Trp Gly Trp Ala Ala Val Pro Phe Gly Pro His Arg Gly Leu Ser  
 20 25 30  
 Val Leu Leu Ala Arg Ile Pro Gln Arg Ala Pro Arg Trp Leu Pro Ala  
 35 40 45  
 Cys Arg Gln Lys Thr Ser Leu Ser Phe Leu Asn Arg Pro Asp Leu Pro  
 50 55 60  
 Asn Leu Ala Tyr Lys Lys Leu Lys Gly Lys Ser Pro Gly Ile Ile Phe  
 65 70 75 80  
 Ile Pro Gly Tyr Leu Ser Tyr Met Asn Gly Thr Lys Ala Leu Ala Ile  
 85 90 95  
 Glu Glu Phe Cys Lys Ser Leu Gly His Ala Cys Ile Arg Phe Asp Tyr  
 100 105 110  
 Ser Gly Val Gly Ser Ser Asp Gly Asn Ser Glu Glu Ser Thr Leu Gly  
 115 120 125  
 Lys Trp Arg Lys Asp Val Leu Ser Ile Ile Asp Asp Leu Ala Asp Gly  
 130 135 140  
 Pro Gln Ile Leu Val Gly Ser Ser Leu Gly Gly Trp Leu Met Leu His  
 145 150 155 160  
 Ala Ala Ile Ala Arg Pro Glu Lys Val Val Ala Leu Ile Gly Val Ala  
 165 170 175  
 Thr Ala Ala Asp Thr Leu Val Thr Lys Phe Asn Gln Leu Pro Val Glu  
 180 185 190  
 Leu Lys Lys Glu Val Glu Met Lys Gly Val Trp Ser Met Pro Ser Lys  
 195 200 205  
 Tyr Ser Glu Glu Gly Val Tyr Asn Val Gln Tyr Ser Phe Ile Lys Glu  
 210 215 220  
 Ala Glu His His Cys Leu Leu His Ser Pro Ile Pro Val Asn Cys Pro  
 225 230 235 240  
 Ile Arg Leu Leu His Gly Met Lys Asp Asp Ile Val Pro Trp His Thr  
 245 250 255  
 Ser Met Gln Val Ala Asp Arg Val Leu Ser Thr Asp Val Asp Val Ile  
 260 265 270  
 Leu Arg Lys His Ser Asp His Arg Met Arg Glu Lys Ala Asp Ile Gln  
 275 280 285  
 Leu Leu Val Tyr Thr Ile Asp Asp Leu Ile Asp Lys Leu Ser Thr Ile  
 290 295 300  
 Val Asn  
 305



<210> 1200  
 <211> 124  
 <212> PRT  
 <213> Homo sapiens

<400> 1200  
 Pro Gln Gly Gln Leu Gly Ala Arg Pro Gln Pro His Ala Arg Pro Gln  
           1                  5                  10                  15  
 Ala Arg Gly Gly Thr Asp Ala Arg Arg Ala Arg Thr Pro Arg Pro Cys  
                   20                  25                  30  
 Leu Pro Arg Arg Cys Pro Glu Pro Pro Ala Ala Ala Arg Ala Gly Gly  
           35                  40                  45  
 Ser Pro Thr Ala Val Arg Ser Ile Leu Thr Lys Glu Arg Arg Pro Glu  
           50                  55                  60  
 Gly Gly Tyr Lys Ala Val Trp Phe Gly Glu Asp Ile Gly Thr Glu Ala  
           65                  70                  75                  80  
 Asp Val Val Val Leu Asn Ala Pro Thr Leu Asp Val Asp Gly Ala Ser  
                   85                  90                  95  
 Asp Ser Gly Ser Gly Asp Glu Gly Glu Gly Ala Gly Arg Gly Gly Gly  
           100                  105                  110  
 Pro Tyr Asp Ala Pro Gly Gly Asp Asp Ser Tyr Ile  
           115                  120

<210> 1201  
 <211> 447  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (260)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1201  
 Phe Pro Ala Gly Ala Ala Ser Thr Val Leu Ala His Asn Lys Met Leu  
           1                  5                  10                  15  
 Lys Val Ser Ala Val Leu Cys Val Cys Ala Ala Ala Trp Cys Ser Gln  
                   20                  25                  30  
 Ser Leu Ala Ala Ala Ala Val Ala Ala Ala Gly Gly Arg Ser Asp  
           35                  40                  45  
 Gly Gly Asn Phe Leu Asp Asp Lys Gln Trp Leu Thr Thr Ile Ser Gln  
           50                  55                  60  
 Tyr Asp Lys Glu Val Gly Gln Trp Asn Lys Phe Arg Asp Asp Asp Tyr  
           65                  70                  75                  80  
 Phe Arg Thr Trp Ser Pro Gly Lys Pro Phe Asp Gln Ala Leu Asp Pro  
                   85                  90                  95

Ala Lys Asp Pro Cys Leu Lys Met Lys Cys Ser Arg His Lys Val Cys  
 100 105 110  
 Ile Ala Gln Asp Ser Gln Thr Ala Val Cys Ile Ser His Arg Arg Leu  
 115 120 125  
 Thr His Arg Met Lys Glu Ala Gly Val Asp His Arg Gln Trp Arg Gly  
 130 135 140  
 Pro Ile Leu Ser Thr Cys Lys Gln Cys Pro Val Val Tyr Pro Ser Pro  
 145 150 155 160  
 Val Cys Gly Ser Asp Gly His Thr Tyr Ser Phe Gln Cys Lys Leu Glu  
 165 170 175  
 Tyr Gln Ala Cys Val Leu Gly Lys Gln Ile Ser Val Lys Cys Glu Gly  
 180 185 190  
 His Cys Pro Cys Pro Ser Asp Lys Pro Thr Ser Thr Ser Arg Asn Val  
 195 200 205  
 Lys Arg Ala Cys Ser Asp Leu Glu Phe Arg Glu Val Ala Asn Arg Leu  
 210 215 220  
 Arg Asp Trp Phe Lys Ala Leu His Glu Ser Gly Ser Gln Asn Lys Lys  
 225 230 235 240  
 Thr Lys Thr Leu Leu Arg Pro Glu Arg Ser Arg Phe Asp Thr Ser Ile  
 245 250 255  
 Leu Pro Ile Xaa Lys Asp Ser Leu Gly Trp Met Phe Asn Arg Leu Asp  
 260 265 270  
 Thr Asn Tyr Asp Leu Leu Leu Asp Gln Ser Glu Leu Arg Ser Ile Tyr  
 275 280 285  
 Leu Asp Lys Asn Glu Gln Cys Thr Lys Ala Phe Phe Asn Ser Cys Asp  
 290 295 300  
 Thr Tyr Lys Asp Ser Leu Ile Ser Asn Asn Glu Trp Cys Tyr Cys Phe  
 305 310 315 320  
 Gln Arg Gln Gln Asp Pro Pro Cys Gln Thr Glu Leu Ser Asn Ile Gln  
 325 330 335  
 Lys Arg Gln Gly Val Lys Lys Leu Leu Gly Gln Tyr Ile Pro Leu Cys  
 340 345 350  
 Asp Glu Asp Gly Tyr Tyr Lys Pro Thr Gln Cys His Gly Ser Val Gly  
 355 360 365  
 Gln Cys Trp Cys Val Asp Arg Tyr Gly Asn Glu Val Met Gly Ser Arg  
 370 375 380  
 Ile Asn Gly Val Ala Asp Cys Ala Ile Asp Phe Glu Ile Ser Gly Asp  
 385 390 395 400  
 Phe Ala Ser Gly Asp Phe His Glu Trp Thr Asp Asp Glu Asp Asp Glu  
 405 410 415

Asp Asp Ile Met Asn Asp Glu Asp Glu Ile Glu Asp Asp Asp Glu Asp  
 420 425 430

Glu Gly Asp Asp Asp Asp Gly Gly Asp Asp His Asp Val Tyr Ile  
 435 440 445

<210> 1202

<211> 551

<212> PRT

<213> Homo sapiens

<400> 1202

Met Gly Ser Trp Ala Leu Leu Trp Pro Pro Leu Leu Phe Thr Gly Leu  
 1 5 10 15

Leu Val Arg Pro Pro Gly Thr Met Ala Gln Ala Gln Tyr Cys Ser Val  
 20 25 30

Asn Lys Asp Ile Phe Glu Val Glu Glu Asn Thr Asn Val Thr Glu Pro  
 35 40 45

Leu Val Asp Ile His Val Pro Glu Gly Gln Glu Val Thr Leu Gly Ala  
 50 55 60

Leu Ser Thr Pro Phe Ala Phe Arg Ile Gln Gly Asn Gln Leu Phe Leu  
 65 70 75 80

Asn Val Thr Pro Asp Tyr Glu Glu Lys Ser Leu Leu Glu Ala Gln Leu  
 85 90 95

Leu Cys Gln Ser Gly Gly Thr Leu Val Thr Gln Leu Arg Val Phe Val  
 100 105 110

Ser Val Leu Asp Val Asn Asp Asn Ala Pro Glu Phe Pro Phe Lys Thr  
 115 120 125

Lys Glu Ile Arg Val Glu Glu Asp Thr Lys Val Asn Ser Thr Val Ile  
 130 135 140

Pro Glu Thr Gln Leu Gln Ala Glu Asp Arg Asp Lys Asp Asp Ile Leu  
 145 150 155 160

Phe Tyr Thr Leu Gln Glu Met Thr Ala Gly Ala Ser Asp Tyr Phe Ser  
 165 170 175

Leu Val Ser Val Asn Arg Pro Ala Leu Arg Leu Asp Arg Pro Leu Asp  
 180 185 190

Phe Tyr Glu Arg Pro Asn Met Thr Phe Trp Leu Leu Val Arg Asp Thr  
 195 200 205

Pro Gly Glu Asn Val Glu Pro Ser His Thr Ala Thr Ala Thr Leu Val  
 210 215 220

Leu Asn Val Val Pro Ala Asp Leu Arg Pro Pro Trp Phe Leu Pro Cys  
 225 230 235 240

Thr Phe Ser Asp Gly Tyr Val Cys Ile Gln Ala Gln Tyr His Gly Ala  
 245 250 255  
 Val Pro Thr Gly His Ile Leu Pro Ser Pro Leu Val Leu Arg Pro Gly  
 260 265 270  
 Pro Ile Tyr Ala Glu Asp Gly Asp Arg Gly Ile Asn Gln Pro Ile Ile  
 275 280 285  
 Tyr Ser Ile Phe Arg Gly Asn Val Asn Gly Thr Phe Ile Ile His Pro  
 290 295 300  
 Asp Ser Gly Asn Leu Thr Val Ala Arg Ser Val Pro Ser Pro Met Thr  
 305 310 315 320  
 Phe Leu Leu Leu Val Lys Gly Gln Gln Ala Asp Leu Ala Arg Tyr Ser  
 325 330 335  
 Val Thr Gln Val Thr Val Glu Ala Val Ala Ala Ala Gly Ser Pro Pro  
 340 345 350  
 Arg Phe Pro Gln Ser Leu Tyr Arg Gly Thr Val Ala Arg Gly Ala Gly  
 355 360 365  
 Ala Gly Val Val Val Lys Asp Ala Ala Ala Pro Ser Gln Pro Leu Arg  
 370 375 380  
 Ile Gln Ala Gln Asp Pro Glu Phe Ser Asp Leu Asn Ser Ala Ile Thr  
 385 390 395 400  
 Tyr Arg Ile Thr Asn His Ser His Phe Arg Met Glu Gly Glu Val Val  
 405 410 415  
 Leu Thr Thr Thr Thr Leu Ala Gln Ala Gly Ala Phe Tyr Ala Glu Val  
 420 425 430  
 Ala Ala Pro Arg Arg Thr Ser Ala Ser Arg Trp Trp Ile Trp Arg Pro  
 435 440 445  
 Trp Ala Gly Cys Trp Val Arg Cys Cys Cys Trp Leu Ser Leu Ala Ser  
 450 455 460  
 Pro Ser Leu Ser Thr Ser Thr Met Ala Pro Gly Ser Ser Ala Ala Leu  
 465 470 475 480  
 Ala Lys Leu Arg Ser Pro Ser Pro Lys Ala Leu Thr Thr Arg Arg Ser  
 485 490 495  
 Ser Leu Thr Thr Arg Pro Thr Gly Arg Pro Ser Pro Ala Pro Arg Thr  
 500 505 510  
 Thr Pro Ser Pro Arg Arg His Arg Cys Pro Gln Ser Pro His Pro Pro  
 515 520 525  
 Ala Leu Pro Pro Gln Ala Val Pro Leu Ser Pro Pro Gln Arg Pro Glu  
 530 535 540  
 Leu Ala Glu Ala Pro Arg Arg  
 545 550

<210> 1203  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1203  
 Phe Cys Lys Gly Gln Ala Ala Leu Ala Leu Ala Ala Cys Gly Val Leu  
           1                  5                  10                  15  
 Leu Xaa Ser Gly Gly Pro Ala Ala Ala Trp Glu Ala Asp Pro Ala Gly  
                   20                  25                  30  
 Arg Cys Gly Arg Val Pro Thr Ala Arg Gly Arg Ser Trp Arg Lys Pro  
                   35                  40                  45  
 Leu Cys Gly Ala Phe Gln Pro Gly Xaa Ser Trp Pro Glu Ala Pro Arg  
           50                  55                  60  
 Arg Cys Arg Thr Ser Pro Cys  
       65                  70

<210> 1204  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids.



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1204

Asn Ser Xaa Xaa Asp Pro Asp Asn Val Leu Trp Pro Gly Arg Trp Thr  
 1 5 10 15

Gln Phe Cys Cys Ile Lys Val Lys Xaa Asp Phe Gln Glu Glu Ala Ser  
 20 25 30

Val Gly Val Ser Xaa Gly Gly Tyr Arg Ile Gly Val Asp Glu Asn Gln  
 35 40 45

Xaa Lys Gly Cys  
 50

&lt;210&gt; 1205

&lt;211&gt; 138

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1205

Val Phe Cys Lys Gly Gln Ala Ala Leu Ala Leu Ala Ala Cys Gly Val  
 1 5 10 15

Leu Leu Gly Ser Gly Gly Pro Ala Ala Ala Trp Glu Ala Asp Pro Arg  
 20 25 30

Gly Gln Val Trp Pro Cys Pro Asp Arg Ala Arg Thr Glu Val Gly Gly  
 35 40 45

Ser Pro Cys Ala Val Pro Ser Ser Pro Glu Glu Ala Gly Leu Lys Pro  
 50 55 60

Pro Gly Val Ala Glu Ala Ser Pro Cys Gln Arg Pro Lys Pro Arg Leu  
 65 70 75 80

Gly Phe Tyr Arg Cys Ser Phe Pro Ser Thr Trp Ser Pro Ser Thr Pro  
 85 90 95

Ser Ser Pro Asn Ser Gln Pro Pro Phe Phe Phe Phe Leu His Ala Ser  
 100 105 110

Lys Val Gln Gly Pro Gln Met Tyr Arg Ser Leu Met Tyr His Pro Ala  
 115 120 125

Arg Glu Pro Ala Asp Tyr Gln Ala Lys Lys  
 130 135

&lt;210&gt; 1206

&lt;211&gt; 193

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
 <221> SITE  
 <222> (140)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (142)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (147)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (155)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (162)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1206  
 Met Ala Gly Pro Thr Cys Arg Ser Leu Leu Leu Leu Lys Cys Leu Ala  
     1                    5                    10                    15  
 Glu Gly Arg Cys Leu Val Cys Pro Ser Pro Ser Val Val His Cys Leu  
                     20                    25                    30  
 Val Ser Val Val Phe Gln Met Thr Ile Leu Arg Asp Leu Glu Lys Leu  
                     35                    40                    45  
 Ala Gly Trp His Arg Ile Ala Ile Ile Phe Ile Leu Ser Gly Ile Thr  
                     50                    55                    60  
 Gly Asn Leu Ala Ser Ala Ile Phe Leu Pro Tyr Arg Ala Glu Val Gly  
                     65                    70                    75                    80  
 Pro Ala Gly Ser Gln Phe Gly Leu Leu Ala Cys Ser Ser Trp Ser Ser  
                     85                    90                    95  
 Ser Arg Ala Gly Arg Cys Trp Arg Gly Pro Gly Arg Pro Ser Ser Thr  
                     100                    105                    110  
 Ser Arg Pro Ser Cys Ser Ser Trp Ser Ser Val Ala Ser Cys Pro Gly  
                     115                    120                    125  
 Ser Thr His Arg Pro His Leu Arg Ala Ser Ser Xaa Ala Xaa Leu Leu  
                     130                    135                    140  
 Ala Phe Xaa Phe Leu Pro Tyr Ile Thr Phe Xaa His Gln Ala Thr Ser  
                     145                    150                    155                    160  
 Thr Xaa Ser Gly His Leu Ile Pro Gly Gly His Leu Ala Gly Pro Leu  
                     165                    170                    175  
 Ala Gly Pro Ser Leu Ala Arg Pro Phe Gly Ala Trp Gly Leu Gly Thr

180

185

190

Phe

&lt;210&gt; 1207

&lt;211&gt; 349

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1207

Gly Lys Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp  
 1 5 10 15

Pro Arg Val Arg Asp Asp Thr Gly Pro Pro Met Asp Lys Ser Asp Leu  
 20 25 30

Gly Gln Lys Arg Thr Ser Gly Ala Val Cys His Gln Asp Pro Arg Thr  
 35 40 45

Cys Glu Glu Pro Ala Ser Ser Gly Ala His Ile Trp Pro Asp Asp Ile  
 50 55 60

Thr Lys Trp Pro Ile Cys Thr Glu Gln Ala Arg Ser Asn His Thr Gly  
 65 70 75 80

Phe Leu His Val Asp Cys Glu Ile Lys Gly Arg Pro Cys Cys Ile Gly  
 85 90 95

Thr Lys Gly Ser Cys Glu Ile Thr Thr Arg Glu Tyr Cys Glu Phe Met  
 100 105 110

His Gly Tyr Phe His Glu Glu Ala Thr Leu Cys Ser Gln Val His Cys  
 115 120 125

Leu Asp Lys Val Cys Gly Leu Leu Pro Phe Leu Asn Pro Glu Val Pro  
 130 135 140

Asp Gln Phe Tyr Arg Leu Trp Leu Ser Leu Phe Leu His Ala Gly Val  
 145 150 155 160

Val His Cys Leu Val Ser Val Val Phe Gln Met Thr Ile Leu Arg Asp  
 165 170 175

Leu Glu Lys Leu Ala Gly Trp His Arg Ile Ala Ile Ile Phe Ile Leu  
 180 185 190

Ser Gly Ile Thr Gly Asn Leu Ala Ser Ala Ile Phe Leu Pro Tyr Arg  
 195 200 205

Ala Glu Val Gly Pro Ala Gly Ser Gln Phe Gly Leu Leu Ala Cys Leu  
 210 215 220

Phe Val Glu Leu Phe Gln Ser Trp Pro Leu Leu Glu Arg Pro Trp Lys  
 225 230 235 240

Ala Phe Leu Asn Leu Ser Ala Ile Val Leu Phe Leu Phe Ile Cys Gly  
 245 250 255

Leu Leu Pro Trp Ile Asp Asn Ile Ala His Ile Phe Gly Phe Leu Ser  
260 265 270

Gly Leu Leu Leu Ala Phe Ala Phe Leu Pro Tyr Ile Thr Phe Gly Thr  
275 280 285

Ser Asp Lys Tyr Arg Lys Arg Ala Leu Ile Leu Val Ser Leu Leu Ala  
290 295 300

Phe Ala Gly Leu Phe Ala Ala Leu Val Leu Trp Leu Tyr Ile Tyr Pro  
305 310 315 320

Ile Asn Trp Pro Trp Ile Glu His Leu Thr Cys Phe Pro Phe Thr Ser  
325 330 335

Arg Phe Cys Glu Lys Tyr Glu Leu Asp Gln Val Leu His  
340 345

<210> 1208

<211> 217

<212> PRT

<213> Homo sapiens

<400> 1208

Met Ala Gly Pro Thr Cys Arg Ser Leu Leu Leu Lys Cys Leu Ala  
1 5 10 15

Glu Gly Arg Cys Leu Val Cys Pro Ser Pro Ser Val Val His Cys Leu  
20 25 30

Val Ser Val Val Phe Gln Met Thr Ile Leu Arg Asp Leu Glu Lys Leu  
35 40 45

Ala Gly Trp His Arg Ile Ala Ile Ile Phe Ile Leu Ser Gly Ile Thr  
50 55 60

Gly Asn Leu Ala Ser Ala Ile Phe Leu Pro Tyr Arg Ala Glu Val Gly  
65 70 75 80

Pro Ala Gly Ser Gln Phe Gly Leu Leu Ala Cys Leu Phe Val Glu Leu  
85 90 95

Phe Gln Ser Trp Pro Leu Leu Glu Arg Pro Trp Lys Ala Phe Leu Asn  
100 105 110

Leu Ser Ala Ile Val Leu Phe Leu Phe Ile Cys Gly Leu Leu Pro Trp  
115 120 125

Ile Asp Asn Ile Ala His Ile Phe Gly Phe Leu Ser Gly Leu Leu Leu  
130 135 140

Ala Phe Ala Phe Leu Pro Tyr Ile Thr Phe Gly Thr Ser Asp Lys Tyr  
145 150 155 160

Arg Lys Arg Ala Leu Ile Leu Val Ser Leu Leu Ala Phe Ala Gly Leu  
165 170 175

Phe Ala Ala Leu Val Leu Trp Leu Tyr Ile Tyr Pro Ile Asn Trp Pro  
180 185 190

Trp Ile Glu His Leu Thr Cys Phe Pro Phe Thr Ser Arg Phe Cys Glu  
195 200 205

Lys Tyr Glu Leu Asp Gln Val Leu His  
210 215

<210> 1209

<211> 207

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (187)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1209
Met Tyr Tyr Ile Ala His Leu Leu Lys Gly Ala Leu Leu Phe Ile Thr
  1             5             10             15

Ile Ala Leu Ile Gly Ser Gly Trp Ala Phe Ile Lys Tyr Val Leu Ser
      20             25             30

Asp Lys Glu Lys Lys Val Phe Gly Ile Val Ile Pro Met Gln Val Leu
      35             40             45

Ala Thr Trp Pro Thr Ser Ser Ser Ser Pro Ala Arg Lys Ala Pro Ala
      50             55             60

Thr Thr Cys Cys Gly Xaa Xaa Xaa Xaa Pro Xaa Gly Pro His Leu Leu

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65	70	75	80
Xaa Cys His Pro Val Pro Val Val Xaa Xaa His Pro Ala Ser Xaa Gly	85	90	95
Xaa Val Xaa Pro Gln Asp Gly Lys Xaa Ala Ser Glu Pro Gly Gln Ser	100	105	110
Leu Lys Leu Val Pro Gly Ile Tyr Tyr Val Met Gly His Leu Xaa Arg	115	120	125
Leu Leu Ser Pro Gly Ser Ile Gly His Pro Ala Cys Xaa Val Ala Trp	130	135	140
Cys Pro Phe Ser Ser Gly Lys Trp Ala Cys Thr Gln Ala Ser Trp Val	145	150	155
Gly Arg Ala Ser Thr Leu Gly Pro Xaa Phe Gly Ala Tyr Arg Ala Tyr	165	170	175
Lys Xaa Ser Gly Pro Gln Gly Asn Lys Pro Xaa Thr Leu Asn Leu Pro	180	185	190
Lys Xaa Gly Gln Gly Gly Met Val Lys Met Glu Gln Val Met Asp	195	200	205

<210> 1210  
 <211> 553  
 <212> PRT  
 <213> Homo sapiens

<400> 1210  
 Val Asp Pro Arg Val Arg Val Ala Pro Glu Met Ala Val Ser Glu Arg  
 1 5 10 15  
 Arg Gly Leu Gly Arg Gly Ser Pro Ala Glu Trp Gly Gln Arg Leu Leu  
 20 25 30  
 Leu Val Leu Leu Leu Gly Gly Cys Ser Gly Arg Ile His Arg Leu Ala  
 35 40 45  
 Leu Thr Gly Glu Lys Arg Ala Asp Ile Gln Leu Asn Ser Phe Gly Phe  
 50 55 60  
 Tyr Thr Asp Gly Ser Leu Glu Val Glu Leu Ser Val Leu Arg Leu Gly  
 65 70 75 80  
 Leu Arg Glu Ala Glu Glu Lys Ser Leu Leu Val Gly Phe Ser Leu Ser  
 85 90 95  
 Arg Val Arg Ser Gly Arg Val Arg Ser Tyr Ser Thr Arg Asp Phe Gln  
 100 105 110  
 Asp Cys Pro Leu Gln Lys Asn Ser Ser Ser Phe Leu Val Leu Phe Leu  
 115 120 125  
 Ile Asn Thr Lys Asp Leu Gln Val Gln Val Arg Lys Tyr Gly Glu Gln  
 130 135 140

Lys Thr Leu Phe Ile Phe Pro Gly Leu Leu Pro Glu Ala Pro Ser Lys  
 145 150 155 160  
 Pro Gly Leu Pro Lys Pro Gln Ala Thr Val Pro Arg Lys Val Asp Gly  
 165 170 175  
 Gly Gly Thr Ser Ala Ala Ser Lys Pro Lys Ser Thr Pro Ala Val Ile  
 180 185 190  
 Gln Gly Pro Ser Gly Lys Asp Lys Asp Leu Val Leu Gly Leu Ser His  
 195 200 205  
 Leu Asn Asn Ser Tyr Asn Phe Ser Phe His Val Val Ile Gly Ser Gln  
 210 215 220  
 Ala Glu Glu Gly Gln Tyr Ser Leu Asn Phe His Asn Cys Asn Asn Ser  
 225 230 235 240  
 Val Pro Gly Lys Glu His Pro Phe Asp Ile Thr Val Met Ile Arg Glu  
 245 250 255  
 Lys Asn Pro Asp Gly Phe Leu Ser Ala Ala Glu Met Pro Leu Phe Lys  
 260 265 270  
 Leu Tyr Met Val Met Ser Ala Cys Phe Leu Ala Ala Gly Ile Phe Trp  
 275 280 285  
 Val Ser Ile Leu Cys Arg Asn Thr Tyr Ser Val Phe Lys Ile His Trp  
 290 295 300  
 Leu Met Ala Ala Leu Ala Phe Thr Lys Ser Ile Ser Leu Leu Phe His  
 305 310 315 320  
 Ser Ile Asn Tyr Tyr Phe Ile Asn Ser Gln Gly His Pro Ile Glu Gly  
 325 330 335  
 Leu Ala Val Met Tyr Tyr Ile Ala His Leu Leu Lys Gly Ala Leu Leu  
 340 345 350  
 Phe Ile Thr Ile Ala Leu Ile Gly Ser Gly Trp Ala Phe Ile Lys Tyr  
 355 360 365  
 Val Leu Ser Asp Lys Glu Lys Lys Val Phe Gly Ile Val Ile Pro Met  
 370 375 380  
 Gln Val Leu Ala Asn Val Ala Tyr Ile Ile Ile Glu Ser Arg Glu Glu  
 385 390 395 400  
 Gly Ala Ser Asp Tyr Val Leu Trp Lys Glu Ile Leu Phe Leu Val Asp  
 405 410 415  
 Leu Ile Cys Cys Gly Ala Ile Leu Phe Pro Val Val Trp Ser Ile Arg  
 420 425 430  
 His Leu Gln Asp Ala Ser Gly Thr Asp Gly Lys Val Ala Val Asn Leu  
 435 440 445  
 Ala Lys Leu Lys Leu Phe Arg His Tyr Tyr Val Met Val Ile Cys Tyr  
 450 455 460



Val Tyr Phe Thr Arg Ile Ile Ala Ile Leu Leu Gln Val Ala Val Pro  
465 470 475 480

Phe Gln Trp Gln Trp Leu Tyr Gln Leu Leu Val Glu Gly Ser Thr Leu  
485 490 495

Ala Phe Phe Val Leu Thr Gly Tyr Lys Phe Gln Pro Thr Gly Asn Asn  
500 505 510

Pro Tyr Leu Gln Leu Pro Gln Glu Asp Glu Glu Asp Val Gln Met Glu  
515 520 525

Gln Val Met Thr Asp Ser Gly Phe Arg Glu Gly Leu Ser Lys Val Asn  
530 535 540

Lys Thr Ala Ser Gly Arg Glu Leu Leu  
545 550

<210> 1211

<211> 543

<212> PRT

<213> Homo sapiens

<400> 1211

Met Ala Val Ser Glu Arg Arg Gly Leu Gly Arg Gly Ser Pro Ala Glu  
1 5 10 15

Trp Gly Gln Arg Leu Leu Leu Val Leu Leu Gly Gly Cys Ser Gly  
20 25 30

Arg Ile His Arg Leu Ala Leu Thr Gly Glu Lys Arg Ala Asp Ile Gln  
35 40 45

Leu Asn Ser Phe Gly Phe Tyr Thr Asn Gly Ser Leu Glu Val Glu Leu  
50 55 60

Ser Val Leu Arg Leu Gly Leu Arg Glu Ala Glu Glu Lys Ser Leu Leu  
65 70 75 80

Val Gly Phe Ser Leu Ser Arg Val Arg Ser Gly Arg Val Arg Ser Tyr  
85 90 95

Ser Thr Arg Asp Phe Gln Asp Cys Pro Leu Gln Lys Asn Ser Ser Ser  
100 105 110

Phe Leu Val Leu Phe Leu Ile Asn Thr Lys Asp Leu Gln Val Gln Val  
115 120 125

Arg Lys Tyr Gly Glu Gln Lys Thr Leu Phe Ile Phe Pro Gly Leu Leu  
130 135 140

Pro Glu Ala Pro Ser Lys Pro Gly Leu Pro Lys Pro Gln Ala Thr Val  
145 150 155 160

Pro Arg Lys Val Asp Gly Gly Gly Thr Ser Ala Ala Ser Lys Pro Lys  
165 170 175

Ser Thr Pro Ala Val Ile Gln Gly Pro Ser Gly Lys Asp Lys Asp Leu  
 180 185 190  
 Val Leu Gly Leu Ser His Leu Asn Asn Ser Tyr Asn Phe Ser Phe His  
 195 200 205  
 Val Val Ile Gly Ser Gln Ala Glu Glu Gly Gln Tyr Ser Leu Asn Phe  
 210 215 220  
 His Asn Cys Asn Asn Ser Val Pro Gly Lys Glu His Pro Phe Asp Ile  
 225 230 235 240  
 Thr Val Met Ile Arg Glu Lys Asn Pro Asp Gly Phe Leu Ser Ala Ala  
 245 250 255  
 Glu Met Pro Leu Phe Lys Leu Tyr Met Val Met Ser Ala Cys Phe Leu  
 260 265 270  
 Ala Ala Gly Ile Phe Trp Val Ser Ile Leu Cys Arg Asn Thr Tyr Ser  
 275 280 285  
 Val Phe Lys Ile His Trp Leu Met Ala Ala Leu Ala Phe Thr Lys Ser  
 290 295 300  
 Ile Ser Leu Leu Phe His Ser Ile Asn Tyr Tyr Phe Ile Asn Ser Gln  
 305 310 315 320  
 Gly His Pro Ile Glu Gly Leu Ala Val Met Tyr Tyr Ile Ala His Leu  
 325 330 335  
 Leu Lys Gly Ala Leu Leu Phe Ile Thr Ile Ala Leu Ile Gly Ser Gly  
 340 345 350  
 Trp Ala Phe Ile Lys Tyr Val Leu Ser Asp Lys Glu Lys Lys Val Phe  
 355 360 365  
 Gly Ile Val Ile Pro Met Gln Val Leu Ala Asn Val Ala Tyr Ile Ile  
 370 375 380  
 Ile Glu Ser Arg Glu Glu Gly Ala Ser Asp Tyr Val Leu Trp Lys Glu  
 385 390 395 400  
 Ile Leu Phe Leu Val Asp Leu Ile Cys Cys Gly Ala Ile Leu Phe Pro  
 405 410 415  
 Val Val Trp Ser Ile Arg His Leu Gln Asp Ala Ser Gly Thr Asp Gly  
 420 425 430  
 Lys Val Ala Val Asn Leu Ala Lys Leu Lys Leu Phe Arg His Tyr Tyr  
 435 440 445  
 Val Met Val Ile Cys Tyr Val Tyr Phe Thr Arg Ile Ile Ala Ile Leu  
 450 455 460  
 Leu Gln Val Ala Val Pro Phe Gln Trp Gln Trp Leu Tyr Gln Leu Leu  
 465 470 475 480  
 Val Glu Gly Ser Thr Leu Ala Phe Phe Val Leu Thr Gly Tyr Lys Phe  
 485 490 495

Gln Pro Thr Gly Asn Asn Pro Tyr Leu Gln Leu Pro Gln Glu Asp Glu  
500 505 510

Glu Asp Val Gln Met Glu Gln Val Met Thr Asp Ser Gly Phe Arg Glu  
515 520 525

Gly Leu Ser Lys Val Asn Lys Thr Ala Ser Gly Arg Glu Leu Leu  
530 535 540

<210> 1212

<211> 204

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1212

Met Ala Ala Leu Ala Tyr Asn Leu Gly Lys Arg Glu Ile Asn His Tyr  
1 5 10 15

Phe Ser Val Arg Ser Ala Lys Val Leu Ala Leu Val Ala Val Leu Leu  
20 25 30

Leu Ala Ala Cys His Leu Ala Ser Arg Arg Tyr Arg Gly Asn Asp Ser  
35 40 45

Cys Glu Tyr Leu Leu Ser Ser Gly Arg Phe Leu Gly Glu Lys Val Trp  
50 55 60

Gln Pro His Ser Cys Met Met His Lys Tyr Lys Ile Ser Glu Ala Lys  
65 70 75 80

Asn Cys Leu Val Asp Lys His Ile Ala Phe Ile Gly Asp Ser Arg Ile  
85 90 95

Arg Gln Leu Phe Tyr Ser Phe Val Lys Ile Ile Asn Pro Gln Phe Lys  
100 105 110

Glu Glu Gly Asn Lys His Glu Asn Ile Pro Phe Glu Asp Lys Thr Ala  
115 120 125

Ser Val Lys Val Asp Phe Leu Trp His Pro Glu Val Asn Gly Ser Met  
130 135 140

Lys Gln Cys Ile Lys Val Trp Thr Glu Asp Ser Ile Ala Lys Pro His  
145 150 155 160

Val Xaa Val Ala Gly Ala Ala Thr Trp Ser Ile Lys Ile His Asn Gly  
165 170 175

Ser Ser Glu Ala Leu Ser Gln Tyr Lys Met Asn Ile Thr Phe Ile Ala  
 180 185 190

Pro Leu Leu Glu Lys Leu Ala Lys Thr Ser Asp Xaa  
 195 200

<210> 1213

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1213

Glu Leu His Lys Pro Phe Glu Tyr Leu Ile Gln Asp Asn Gly Xaa Val  
 1 5 10 15

Leu Leu Leu Gln Asn Asn Val Tyr Val Cys Met Tyr Ile Trp Phe Ser  
 20 25 30

Ile Tyr Ile Lys Gly Leu Asp Glu Pro Pro Lys Asn Trp Leu Arg Thr  
 35 40 45

Leu Gln Trp Asn Leu Gln Ala Ser Ile Cys Lys Ser Ala Arg His Lys  
 50 55 60

Thr Thr Cys Ser Leu Arg Ala Lys Arg Met Arg Phe Ser Gln Ile Leu  
 65 70 75 80

Ile Ile Leu Asn Val  
 85

<210> 1214

<211> 289

<212> PRT

<213> Homo sapiens

<400> 1214

Met Ala Ala Leu Ala Tyr Asn Leu Gly Lys Arg Glu Ile Asn His Tyr  
 1 5 10 15

Phe Ser Val Arg Ser Ala Lys Val Leu Ala Leu Val Ala Val Leu Leu  
 20 25 30

Leu Ala Ala Cys His Leu Ala Ser Arg Arg Tyr Arg Gly Asn Asp Ser  
 35 40 45

Cys Glu Tyr Leu Leu Ser Ser Gly Arg Phe Leu Gly Glu Lys Val Trp  
 50 55 60

Gln Pro His Ser Cys Met Met His Lys Tyr Lys Ile Ser Glu Ala Lys  
 65 70 75 80

Asn Cys Leu Val Asp Lys His Ile Ala Phe Ile Gly Asp Ser Arg Ile  
                             85                            90                            95  
 Arg Gln Leu Phe Tyr Ser Phe Val Lys Ile Ile Asn Pro Gln Phe Lys  
                             100                            105                            110  
 Glu Glu Gly Asn Lys His Glu Asn Ile Pro Phe Glu Asp Lys Thr Ala  
                             115                            120                            125  
 Ser Val Lys Val Asp Phe Leu Trp His Pro Glu Val Asn Gly Ser Met  
                             130                            135                            140  
 Lys Gln Cys Ile Lys Val Trp Thr Glu Asp Ser Ile Ala Lys Pro His  
                             145                            150                            155                            160  
 Val Ile Val Ala Gly Ala Ala Thr Trp Ser Ile Lys Ile His Asn Gly  
                             165                            170                            175  
 Ser Ser Glu Ala Leu Ser Gln Tyr Lys Met Asn Ile Thr Ser Ile Ala  
                             180                            185                            190  
 Pro Leu Leu Glu Lys Leu Ala Lys Thr Ser Asp Val Tyr Trp Val Leu  
                             195                            200                            205  
 Gln Asp Pro Val Tyr Glu Asp Leu Leu Ser Glu Asn Arg Lys Met Ile  
                             210                            215                            220  
 Thr Asn Glu Lys Ile Asp Ala Tyr Asn Glu Ala Ala Val Ser Ile Leu  
                             225                            230                            235                            240  
 Asn Ser Ser Thr Arg Asn Ser Lys Ser Asn Val Lys Met Phe Ser Val  
                             245                            250                            255  
 Ser Lys Leu Ile Ala Gln Glu Thr Ile Met Glu Ser Leu Asp Gly Leu  
                             260                            265                            270  
 His Leu Pro Glu Ser Ser Arg Glu Thr Val Arg Asn Phe Tyr Ile Cys  
                             275                            280                            285  
 Gln

<210> 1215  
 <211> 215  
 <212> PRT  
 <213> Homo sapiens

<400> 1215  
 Cys Glu Val Arg Pro Glu Val Leu Phe Leu Thr Arg His Phe Ile Phe  
   1                            5                            10                            15  
 His Asp Asn Asn Asn Thr Trp Glu Gly His Tyr Tyr His Tyr Ser Asp  
                             20                            25                            30  
 Pro Val Cys Lys His Pro Thr Phe Ser Ile Tyr Ala Arg Gly Arg Tyr  
                             35                            40                            45  
 Ser Arg Gly Val Leu Ser Ser Arg Val Met Gly Gly Thr Glu Phe Val

50                      55                      60  
 Phe Lys Val Asn His Met Lys Val Thr Pro Met Asp Ala Ala Thr Ala  
 65                      70                      75                      80  
 Ser Leu Leu Asn Val Phe Asn Gly Asn Glu Cys Gly Ala Glu Gly Ser  
 85                      90                      95  
 Trp Gln Val Gly Ile Gln Gln Asp Val Thr His Thr Asn Gly Cys Val  
 100                      105                      110  
 Ala Leu Gly Ile Lys Leu Pro His Thr Glu Tyr Glu Ile Phe Lys Met  
 115                      120                      125  
 Glu Gln Asp Ala Arg Gly Arg Tyr Leu Leu Phe Asn Gly Gln Arg Pro  
 130                      135                      140  
 Ser Asp Gly Ser Ser Pro Asp Arg Pro Glu Lys Arg Ala Thr Ser Tyr  
 145                      150                      155                      160  
 Gln Met Pro Leu Val Gln Cys Ala Ser Ser Ser Pro Arg Ala Glu Asp  
 165                      170                      175  
 Leu Ala Glu Asp Ser Gly Ser Ser Leu Tyr Gly Arg Ala Pro Gly Arg  
 180                      185                      190  
 His Thr Trp Ser Leu Leu Leu Ala Ala Leu Ala Cys Leu Val Pro Leu  
 195                      200                      205  
 Leu His Trp Asn Ile Arg Arg  
 210                      215

<210> 1216  
 <211> 466  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (268)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (458)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (460)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (461)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <220>

&lt;221&gt; SITE

&lt;222&gt; (463)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1216

Met Ser Trp Pro Arg Arg Leu Leu Leu Arg Tyr Leu Phe Pro Ala Leu  
 1 5 10 15

Leu Leu His Gly Leu Gly Glu Gly Ser Ala Leu Leu His Pro Asp Ser  
 20 25 30

Arg Ser His Pro Arg Ser Leu Glu Lys Ser Ala Trp Arg Ala Phe Lys  
 35 40 45

Glu Ser Gln Cys His His Met Leu Lys His Leu His Asn Gly Ala Arg  
 50 55 60

Ile Thr Val Gln Met Pro Pro Thr Ile Glu Gly His Trp Val Ser Thr  
 65 70 75 80

Gly Cys Glu Val Arg Ser Gly Pro Glu Phe Ile Thr Arg Ser Tyr Arg  
 85 90 95

Phe Tyr His Asn Asn Thr Phe Lys Ala Tyr Gln Phe Tyr Tyr Gly Ser  
 100 105 110

Asn Arg Cys Thr Asn Pro Thr Tyr Thr Leu Ile Ile Arg Gly Lys Ile  
 115 120 125

Arg Leu Arg Gln Ala Ser Trp Ile Ile Arg Gly Gly Thr Glu Ala Asp  
 130 135 140

Tyr Gln Leu His Asn Val Gln Val Ile Cys His Thr Glu Ala Val Ala  
 145 150 155 160

Glu Lys Leu Gly Gln Gln Val Asn Arg Thr Cys Pro Gly Phe Leu Ala  
 165 170 175

Asp Gly Gly Pro Trp Val Gln Asp Val Ala Tyr Asp Leu Trp Arg Glu  
 180 185 190

Glu Asn Gly Cys Glu Cys Thr Lys Ala Val Asn Phe Ala Met His Glu  
 195 200 205

Leu Gln Leu Ile Arg Val Glu Lys Gln Tyr Leu His His Asn Leu Asp  
 210 215 220

His Leu Val Glu Glu Leu Phe Leu Gly Asp Ile His Thr Asp Ala Thr  
 225 230 235 240

Gln Arg Met Phe Tyr Arg Pro Ser Ser Tyr Gln Pro Pro Leu Gln Asn  
 245 250 255

Ala Lys Asn His Asp His Ala Cys Ile Ala Cys Xaa Ile Ile Tyr Arg  
 260 265 270

Ser Asp Glu His His Pro Pro Ile Leu Pro Pro Lys Ala Asp Leu Thr  
 275 280 285

Ile Gly Leu His Gly Glu Trp Val Ser Gln Arg Cys Glu Val Arg Pro

290                      295                      300  
 Glu Val Leu Phe Leu Thr Arg His Phe Ile Phe His Asp Asn Asn Asn  
 305                      310                      315                      320  
 Thr Trp Glu Gly His Tyr Tyr His Tyr Ser Asp Pro Val Cys Lys His  
                     325                      330                      335  
 Pro Thr Phe Ser Ile Tyr Ala Arg Gly Arg Tyr Ser Arg Gly Val Leu  
                     340                      345                      350  
 Ser Ser Arg Val Met Gly Gly Thr Glu Phe Val Phe Lys Val Asn His  
                     355                      360                      365  
 Met Lys Val Thr Pro Met Asp Ala Ala Thr Ala Ser Leu Leu Asn Val  
                     370                      375                      380  
 Phe Asn Gly Asn Glu Cys Gly Ala Glu Gly Ser Trp Gln Val Gly Ile  
 385                      390                      395                      400  
 Gln Gln Asp Val Thr His Thr Asn Gly Cys Val Ala Leu Gly Ile Lys  
                     405                      410                      415  
 Leu Pro His Thr Glu Tyr Glu Ile Phe Lys Met Glu Gln Asp Ala Arg  
                     420                      425                      430  
 Gly Arg Tyr Leu Leu Phe Asn Gly Gln Arg Pro Ser Asp Gly Ser Ser  
                     435                      440                      445  
 Pro Asp Arg Pro Arg Arg Lys Lys Gly Xaa Lys Xaa Xaa Lys Xaa Ala  
                     450                      455                      460  
 Pro Pro  
 465

<210> 1217  
 <211> 514  
 <212> PRT  
 <213> Homo sapiens

<400> 1217  
 Met Ser Trp Pro Arg Arg Leu Leu Leu Arg Tyr Leu Phe Pro Ala Leu  
   1                    5                    10                    15  
 Leu Leu His Gly Leu Gly Glu Gly Ser Ala Leu Leu His Pro Asp Ser  
                     20                    25                    30  
 Arg Ser His Pro Arg Ser Leu Glu Lys Ser Ala Trp Arg Ala Phe Lys  
                     35                    40                    45  
 Glu Ser Gln Cys His His Met Leu Lys His Leu His Asn Gly Ala Arg  
                     50                    55                    60  
 Ile Thr Val Gln Met Pro Pro Thr Ile Glu Gly His Trp Val Ser Thr  
   65                    70                    75                    80  
 Gly Cys Glu Val Arg Ser Gly Pro Glu Phe Ile Thr Arg Ser Tyr Arg  
                     85                    90                    95



Phe Tyr His Asn Asn Thr Phe Lys Ala Tyr Gln Phe Tyr Tyr Gly Ser  
 100 105 110  
 Asn Arg Cys Thr Asn Pro Thr Tyr Thr Leu Ile Ile Arg Gly Lys Ile  
 115 120 125  
 Arg Leu Arg Gln Ala Ser Trp Ile Ile Arg Gly Gly Thr Glu Ala Asp  
 130 135 140  
 Tyr Gln Leu His Asn Val Gln Val Ile Cys His Thr Glu Ala Val Ala  
 145 150 155 160  
 Glu Lys Leu Gly Gln Gln Val Asn Arg Thr Cys Pro Gly Phe Leu Ala  
 165 170 175  
 Asp Gly Gly Pro Trp Val Gln Asp Val Ala Tyr Asp Leu Trp Arg Glu  
 180 185 190  
 Glu Asn Gly Cys Glu Cys Thr Lys Ala Val Asn Phe Ala Met His Glu  
 195 200 205  
 Leu Gln Leu Ile Arg Val Glu Lys Gln Tyr Leu His His Asn Leu Asp  
 210 215 220  
 His Leu Val Glu Glu Leu Phe Leu Gly Asp Ile His Thr Asp Ala Thr  
 225 230 235 240  
 Gln Arg Met Phe Tyr Arg Pro Ser Ser Tyr Gln Pro Pro Leu Gln Asn  
 245 250 255  
 Ala Lys Asn His Asp His Ala Cys Ile Ala Cys Arg Ile Ile Tyr Arg  
 260 265 270  
 Ser Asp Glu His His Pro Pro Ile Leu Pro Pro Lys Ala Asp Leu Thr  
 275 280 285  
 Ile Gly Leu His Gly Glu Trp Val Ser Gln Arg Cys Glu Val Arg Pro  
 290 295 300  
 Glu Val Leu Phe Leu Thr Arg His Phe Ile Phe His Asp Asn Asn Asn  
 305 310 315 320  
 Thr Trp Glu Gly His Tyr Tyr His Tyr Ser Asp Pro Val Cys Lys His  
 325 330 335  
 Pro Thr Phe Ser Ile Tyr Ala Arg Gly Arg Tyr Ser Arg Gly Val Leu  
 340 345 350  
 Ser Ser Arg Val Met Gly Gly Thr Glu Phe Val Phe Lys Val Asn His  
 355 360 365  
 Met Lys Val Thr Pro Met Asp Ala Ala Thr Ala Ser Leu Leu Asn Val  
 370 375 380  
 Phe Asn Gly Asn Glu Cys Gly Ala Glu Gly Ser Trp Gln Val Gly Ile  
 385 390 395 400  
 Gln Gln Asp Val Thr His Thr Asn Gly Cys Val Ala Leu Gly Ile Lys  
 405 410 415

Leu Pro His Thr Glu Tyr Glu Ile Phe Lys Met Glu Gln Asp Ala Arg  
                     420                    425                    430  
 Gly Arg Tyr Leu Leu Phe Asn Gly Gln Arg Pro Ser Asp Gly Ser Ser  
                     435                    440                    445  
 Pro Asp Arg Pro Glu Lys Arg Ala Thr Ser Tyr Gln Met Pro Leu Val  
                     450                    455                    460  
 Gln Cys Ala Ser Ser Ser Pro Arg Ala Glu Asp Leu Ala Glu Asp Ser  
                     465                    470                    475                    480  
 Gly Ser Ser Leu Tyr Gly Arg Ala Pro Gly Arg His Thr Trp Ser Leu  
                     485                    490                    495  
 Leu Leu Ala Ala Leu Ala Cys Leu Val Pro Leu Leu His Trp Asn Ile  
                     500                    505                    510  
 Arg Arg

<210> 1218  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 1218  
 Met Asn Asn Ser Ile Ala Ala Gln Ala Ser Lys Phe Val Ile Leu Tyr  
     1                    5                    10                    15  
 Leu Phe Ile Leu Ser Phe Pro Lys Gln Cys Ile Cys His Ile Leu Ser  
                     20                    25                    30  
 Glu Met Val Trp  
                     35

<210> 1219  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<400> 1219  
 Gln Ala Ser Lys Ser Leu Leu Pro His Gly Ile His Thr Ile Leu Asn  
     1                    5                    10                    15  
 Val Ile Tyr Ile Asn Leu Thr Ser Val Gly Ile Met Thr Met Cys Met  
                     20                    25                    30  
 Lys Cys Asn Leu Pro Lys Lys Phe Leu Arg Asp Ser Val Ser Lys Val  
                     35                    40                    45  
 Leu Ile Asp Ser Trp Ser His Arg Tyr Leu Leu Thr Ser Met Tyr Gln  
                     50                    55                    60  
 Tyr Ser Arg Leu Ser Glu Glu Lys Gln Val Ile Ser Ile Tyr Cys Ile

<400> 1221

Met Asn Asn Ser Ile Ala Ala Gln Ala Ser Lys Phe Val Ile Leu Tyr  
 1 5 10 15

Leu Phe Ile Leu Ser Phe Pro Lys Gln Cys Ile Cys His Ile Leu Val  
 20 25 30

Arg Trp Ser Gly Lys Ser His Phe  
 35 40

<210> 1222

<211> 39

<212> PRT

<213> Homo sapiens

<400> 1222

Met Met Gln Val Pro Asp Leu Glu Leu Gly Leu Leu Leu Ala Thr Phe  
 1 5 10 15

Leu Leu His Leu Leu Asp Ala Leu Pro Met Leu Leu Ser Leu Gln Ser  
 20 25 30

Cys Arg Glu Pro Thr Ser Ser  
 35

<210> 1223

<211> 54

<212> PRT

<213> Homo sapiens

<400> 1223

Gly Thr Leu Gln Arg Gly Phe Leu Leu Cys Ser Leu Val Pro Gly Trp  
 1 5 10 15

Gly Trp Gly Thr Pro Ala Ala Leu Thr Asp Gly Ser Pro Phe Ser Leu  
 20 25 30

Ser Gly His Pro Ser Pro Thr Leu Thr Cys Thr Lys Phe Ser Pro Gln  
 35 40 45

Leu Leu Cys Val Ala Pro  
 50

<210> 1224

<211> 39

<212> PRT

<213> Homo sapiens

<400> 1224

Met Met Gln Val Pro Asp Leu Glu Leu Gly Leu Leu Leu Ala Thr Phe  
 1 5 10 15

Leu Leu His Leu Leu Asp Ala Leu Pro Met Leu Leu Ser Leu Gln Ser  
 20 25 30

Cys Arg Glu Pro Thr Ser Ser  
35

<210> 1225  
<211> 167  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (165)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1225  
Met Ser Leu Tyr Leu Cys Val Ser Leu Leu Ile Ser Leu Ser Leu Ser  
1 5 10 15

Leu Asn Val Ser Val Ser Val Ser Leu Arg Leu Cys Leu Tyr Phe Ser  
20 25 30

Pro Pro Leu Ser Asp Ala Ile Ser Leu Cys Leu Ser Leu Ser Leu Ser  
35 40 45

Val Ser Pro Phe Leu Ser Pro Ser Leu Ala Leu Cys Phe Leu Cys Leu  
50 55 60

Cys Leu Phe Leu Ala Gln Ser Arg Ala Leu Gly Met Arg Thr Arg Val  
65 70 75 80

Ser Gln Gly Trp Leu Gln Leu Asp Thr Ser Gly Ile Pro Ala Ser Pro  
85 90 95

Gly Pro Ser Lys Gly Glu Arg Tyr Val Thr Phe Gly Val Val Gly Gly  
100 105 110

Ala Gly Ser Asn Leu Ala Val His Ser Ala Arg Pro Leu Ile Gly Asn  
115 120 125

Leu Leu Ser Val Gly Pro Thr Ser Thr Leu Thr Pro Thr Arg Gly Leu  
130 135 140

Ser Trp Gln Ser Ile Ala Ala Ser Pro Ser Ser Thr Gly His Ala Lys  
145 150 155 160

Phe Arg Glu Thr Xaa Lys Asn  
165

<210> 1226  
<211> 71  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1226

Gln Leu Arg Xaa Leu Arg Asp Ser Ile Pro Glu Gln Phe Cys Asn Arg  
 1 5 10 15

Leu Lys Ala Pro Gly Asn Arg Thr His Ile Ser Gly Cys Leu Gly Gly  
 20 25 30

Gly Gln Asp Leu Gly Gly Pro Glu Arg Val Phe Trp Asp Asp Gly Ile  
 35 40 45

Phe Cys Ile Leu Thr Val Trp Cys Leu His Arg Xaa Gln His Leu Ser  
 50 55 60

Glu Ile Asn Gly Leu Ser Leu  
 65 70

&lt;210&gt; 1227

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1227

Met Ser Leu Tyr Leu Cys Val Ser Leu Leu Ile Ser Leu Ser Leu Ser  
 1 5 10 15

Leu Asn Val Ser Val Ser Val Ser Leu Arg Leu Cys Leu Tyr Phe Ser  
 20 25 30

Pro Pro Leu Ser Asp Ala Ile Ser Leu Cys Leu Ser Leu Ser Leu Ser  
 35 40 45

Val Ser Pro Phe Leu Ser Pro Ser Leu Ala Leu Cys Phe Leu Cys Leu  
 50 55 60

Cys Leu Phe Leu Ala Gln Ser Arg Ala Leu Gly Met Arg Thr Arg Val  
 65 70 75 80

Ser Gln Gly Trp Leu Gln Leu Asp Thr Ser Gly Ile Pro Ala Ser Pro  
 85 90 95

Gly Pro Ser Lys Gly Glu Arg Tyr Val Tyr Phe Arg Gly Gly Arg Gly  
 100 105 110

Cys Gly

&lt;210&gt; 1228

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1228

Met Ala Ala Leu Xaa Thr Val Leu Phe Thr Gly Val Arg Arg Leu His  
1 5 10 15Cys Ser Ala Ala Ala Trp Ala Gly Gly Gln Trp Arg Leu Gln Gln Gly  
20 25 30Leu Ala Ala Asn Pro Ser Gly Tyr Gly Pro Leu Thr Glu Leu Pro Asp  
35 40 45Trp Ser Tyr Ala Asp Gly Arg Pro Ala Pro Pro Met Lys Gly Gln Leu  
50 55 60Arg Arg Lys Ala Glu Arg Glu Thr Phe Ala Arg Arg Val Val Leu Leu  
65 70 75 80Ser Gln Glu Met Asp Ala Gly Leu Gln Ala Trp Gln Leu Arg Gln Gln  
85 90 95Lys Leu Gln Glu Glu Gln Arg Lys Gln Glu Asn Ala Leu Lys Pro Lys  
100 105 110Gly Ala Ser Leu Lys Ser Pro Leu Pro Ser Gln  
115 120

&lt;210&gt; 1229

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1229

Met Ala Ala Leu Val Thr Val Leu Phe Thr Gly Val Arg Arg Leu His  
1 5 10 15Cys Ser Ala Ala Ala Trp Ala Gly Gly Gln Trp Arg Leu Gln Gln Gly  
20 25 30Leu Ala Ala Asn Pro Ser Gly Tyr Gly Pro Leu Thr Glu Leu Pro Asp  
35 40 45Trp Ser Tyr Ala Asp Gly Arg Pro Ala Pro Pro Met Lys Gly Gln Leu  
50 55 60Arg Arg Lys Ala Glu Arg Glu Thr Phe Ala Arg Arg Val Val Leu Leu  
65 70 75 80Ser Gln Glu Met Asp Ala Gly Leu Gln Ala Trp Gln Leu Arg Gln Gln  
85 90 95Lys Leu Gln Glu Glu Gln Arg Lys Gln Glu Asn Ala Leu Lys Pro Lys  
100 105 110

Gly Ala Ser Leu Lys Ser Pro Leu Pro Ser Gln  
 115 120

<210> 1230  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

<400> 1230  
 Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Ala Leu Gly Leu  
 1 5 10 15

Arg Gly Leu Gln Ala Gly Ala Arg Arg Ala Pro Asp Pro Gly Phe Gln  
 20 25 30

Glu Arg Phe Phe Gln Gln Arg Leu Asp His Phe Asn Phe Glu Arg Phe  
 35 40 45

Gly Asn Lys Thr Phe Pro Gln Arg Phe Leu Val Ser Asp Arg Phe Trp  
 50 55 60

Val Arg Gly Glu Gly Pro Ile Phe Phe Tyr Thr Gly Asn Glu Gly Asp  
 65 70 75 80

Val Trp Ala Phe Ala Asn Asn Ser Ala Phe Val Ala Glu Leu Ala Ala  
 85 90 95

Glu Arg Gly Ala Leu Leu Val Phe Ala Glu His Arg Tyr Tyr Gly Lys  
 100 105 110

Ser Leu Pro Phe Gly Ala Gln Ser Thr Gln Arg Gly Thr Arg Ser Cys  
 115 120 125

<210> 1231  
 <211> 492  
 <212> PRT  
 <213> Homo sapiens

<400> 1231  
 Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Leu Ala Leu Gly Leu  
 1 5 10 15

Arg Gly Leu Gln Ala Gly Ala Arg Arg Ala Pro Asp Pro Gly Phe Gln  
 20 25 30

Glu Arg Phe Phe Gln Gln Arg Leu Asp His Phe Asn Phe Glu Arg Phe  
 35 40 45

Gly Asn Lys Thr Phe Pro Gln Arg Phe Leu Val Ser Asp Arg Phe Trp  
 50 55 60

Val Arg Gly Glu Gly Pro Ile Phe Phe Tyr Thr Gly Asn Glu Gly Asp  
 65 70 75 80



Val Trp Ala Phe Ala Asn Asn Ser Ala Phe Val Ala Glu Leu Ala Ala  
 85 90 95  
 Glu Arg Gly Ala Leu Leu Val Phe Ala Glu His Arg Tyr Tyr Gly Lys  
 100 105 110  
 Ser Leu Pro Phe Gly Ala Gln Ser Thr Gln Arg Gly His Thr Glu Leu  
 115 120 125  
 Leu Thr Val Glu Gln Ala Leu Ala Asp Phe Ala Glu Leu Leu Arg Ala  
 130 135 140  
 Leu Arg Arg Asp Leu Gly Ala Gln Asp Ala Pro Ala Ile Ala Phe Gly  
 145 150 155 160  
 Gly Ser Tyr Gly Gly Met Leu Ser Ala Tyr Leu Arg Met Lys Tyr Pro  
 165 170 175  
 His Leu Val Ala Gly Ala Leu Ala Ala Ser Ala Pro Val Leu Ala Val  
 180 185 190  
 Ala Gly Leu Gly Asp Ser Asn Gln Phe Phe Arg Asp Val Thr Ala Asp  
 195 200 205  
 Phe Glu Gly Gln Ser Pro Lys Cys Thr Gln Gly Val Arg Glu Ala Phe  
 210 215 220  
 Arg Gln Ile Lys Asp Leu Phe Leu Gln Gly Ala Tyr Asp Thr Val Arg  
 225 230 235 240  
 Trp Glu Phe Gly Thr Cys Gln Pro Leu Ser Asp Glu Lys Asp Leu Thr  
 245 250 255  
 Gln Leu Phe Met Phe Ala Arg Asn Ala Phe Thr Val Leu Ala Met Met  
 260 265 270  
 Asp Tyr Pro Tyr Pro Thr Asp Phe Leu Gly Pro Leu Pro Ala Asn Pro  
 275 280 285  
 Val Lys Val Gly Cys Asp Arg Leu Leu Ser Glu Ala Gln Arg Ile Thr  
 290 295 300  
 Gly Leu Arg Ala Leu Ala Gly Leu Val Tyr Asn Ala Ser Gly Ser Glu  
 305 310 315 320  
 His Cys Tyr Asp Ile Tyr Arg Leu Tyr His Ser Cys Ala Asp Pro Thr  
 325 330 335  
 Gly Cys Gly Thr Gly Pro Asp Ala Arg Ala Trp Asp Tyr Gln Ala Cys  
 340 345 350  
 Thr Glu Ile Asn Leu Thr Phe Ala Ser Asn Asn Val Thr Asp Met Phe  
 355 360 365  
 Pro Asp Leu Pro Phe Thr Asp Glu Leu Arg Gln Arg Tyr Cys Leu Asp  
 370 375 380  
 Thr Trp Gly Val Trp Pro Arg Pro Asp Trp Leu Leu Thr Ser Phe Trp  
 385 390 395 400

Gly Gly Asp Leu Arg Ala Ala Ser Asn Ile Ile Phe Ser Asn Gly Asn  
405 410 415

Leu Asp Pro Trp Ala Gly Gly Gly Ile Arg Arg Asn Leu Ser Ala Ser  
420 425 430

Val Ile Ala Val Thr Ile Gln Gly Gly Ala His His Leu Asp Leu Arg  
435 440 445

Ala Ser His Pro Glu Asp Pro Ala Ser Val Val Glu Ala Arg Lys Leu  
450 455 460

Glu Ala Thr Ile Ile Gly Glu Trp Val Lys Ala Ala Arg Arg Glu Gln  
465 470 475 480

Gln Pro Ala Leu Arg Gly Gly Pro Arg Leu Ser Leu  
485 490

<210> 1232

<211> 492

<212> PRT'

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1232

Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Leu Ala Leu Gly Leu  
1 5 10 15

Arg Gly Leu Gln Ala Gly Ala Arg Arg Ala Pro Asp Pro Gly Phe Gln  
20 25 30

Glu Arg Phe Phe Gln Gln Arg Leu Asp His Phe Asn Phe Glu Arg Phe  
35 40 45

Gly Asn Lys Thr Phe Pro Gln Arg Phe Leu Val Ser Asp Arg Phe Trp  
50 55 60

Val Arg Gly Glu Gly Pro Ile Phe Phe Tyr Thr Gly Asn Glu Gly Asp  
65 70 75 80

Val Trp Ala Phe Ala Asn Asn Ser Xaa Phe Val Ala Glu Leu Ala Ala  
85 90 95

Glu Arg Gly Ala Leu Leu Val Phe Ala Glu His Arg Tyr Tyr Gly Lys  
100 105 110

Ser Leu Pro Phe Gly Ala Gln Ser Thr Gln Arg Gly His Thr Glu Leu  
115 120 125

Leu Thr Val Glu Gln Ala Leu Ala Asp Phe Ala Glu Leu Leu Arg Ala  
130 135 140

Leu Arg Arg Asp Leu Gly Ala Gln Asp Ala Pro Ala Ile Ala Phe Gly

145                      150                      155                      160  
 Gly Ser Tyr Gly Gly Met Leu Ser Ala Tyr Leu Arg Met Lys Tyr Pro  
                                  165                      170                      175  
 His Leu Val Ala Gly Ala Leu Ala Ala Ser Ala Pro Val Leu Ala Val  
                                  180                      185                      190  
 Ala Gly Leu Gly Asp Ser Asn Gln Phe Phe Arg Asp Val Thr Ala Asp  
                                  195                      200                      205  
 Phe Glu Gly Gln Ser Pro Lys Cys Thr Gln Gly Val Arg Glu Ala Phe  
                                  210                      215                      220  
 Arg Gln Ile Lys Asp Leu Phe Leu Gln Gly Ala Tyr Asp Thr Val Arg  
                                  225                      230                      235                      240  
 Trp Glu Phe Gly Thr Cys Gln Pro Leu Ser Asp Glu Lys Asp Leu Thr  
                                  245                      250                      255  
 Gln Leu Phe Met Phe Ala Arg Asn Ala Phe Thr Val Leu Ala Met Met  
                                  260                      265                      270  
 Asp Tyr Pro Tyr Pro Thr Asp Phe Leu Gly Pro Leu Pro Ala Asn Pro  
                                  275                      280                      285  
 Val Lys Val Gly Cys Asp Arg Leu Leu Ser Glu Ala Gln Arg Ile Thr  
                                  290                      295                      300  
 Gly Leu Arg Ala Leu Ala Gly Leu Val Tyr Asn Ala Ser Gly Ser Glu  
                                  305                      310                      315                      320  
 His Cys Tyr Asp Ile Tyr Arg Leu Tyr His Ser Cys Ala Asp Pro Thr  
                                  325                      330                      335  
 Gly Cys Gly Thr Gly Pro Asp Ala Arg Ala Trp Asp Tyr Gln Ala Cys  
                                  340                      345                      350  
 Thr Glu Ile Asn Leu Thr Phe Ala Ser Asn Asn Val Thr Asp Met Phe  
                                  355                      360                      365  
 Pro Asp Leu Pro Phe Thr Asp Glu Leu Arg Gln Arg Tyr Cys Leu Asp  
                                  370                      375                      380  
 Thr Trp Gly Val Trp Pro Arg Pro Asp Trp Leu Leu Thr Ser Phe Trp  
                                  385                      390                      395                      400  
 Gly Gly Asp Leu Arg Ala Ala Ser Asn Ile Ile Phe Ser Asn Gly Asn  
                                  405                      410                      415  
 Leu Asp Pro Trp Ala Gly Gly Gly Ile Arg Arg Asn Leu Ser Ala Ser  
                                  420                      425                      430  
 Val Ile Ala Val Thr Ile Gln Gly Gly Ala His His Leu Asp Leu Arg  
                                  435                      440                      445  
 Ala Ser His Pro Glu Asp Pro Ala Ser Val Val Glu Ala Arg Lys Leu  
                                  450                      455                      460  
 Glu Ala Thr Ile Ile Gly Glu Trp Val Lys Ala Ala Arg Arg Glu Gln  
                                  695

465

470

475

480

Gln Pro Ala Leu Arg Gly Gly Pro Arg Leu Ser Leu  
 485 490

&lt;210&gt; 1233

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1233

Met Phe Leu Glu Leu Ser Gln Ala Leu Leu Leu Gly Leu Pro Arg  
 1 5 10 15

Ala Pro Thr Leu Phe Pro Ala Leu Pro Glu Gly Pro Thr Ser Leu Gly  
 20 25 30

Glu Gln Trp Pro Pro Gln Leu Pro Pro His Leu Gly Ala Pro Pro Ala  
 35 40 45

Ala Glu Gly Ala Val Ala Met Val Gly Cys Gly Glu Gly Arg Gly Gly  
 50 55 60

Lys Pro Leu Cys Cys Ser Pro Ala Gln Ser Pro Ala Gln Arg Val Arg  
 65 70 75 80

Ser Gly Gly Asp Lys Glu Pro Ile Thr Thr Thr Glu Val Ser Leu Ile  
 85 90 95

Leu Leu His Ser Arg Cys Phe Asn Leu Thr Lys Leu Lys Lys Thr Ala  
 100 105 110

Phe Ala Met Ala His Arg Ser Leu Tyr Leu Phe Leu Arg Lys Cys Phe  
 115 120 125

Leu Leu Phe Ala Gly Gln Val Pro Lys Asn Arg Gln Met Phe Leu Leu  
 130 135 140

Lys Asp Gln Pro Ile Arg Leu Val Arg Thr Arg Arg Leu Trp Pro Arg  
 145 150 155 160

Ala Ser Pro Leu Gln Ala Cys Gly Leu Arg Trp His Leu Ala Ala Gly  
 165 170 175

Pro Gln Pro Gly Glu Gly Tyr Tyr  
 180

&lt;210&gt; 1234

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1234

Met Phe Leu Glu Leu Ser Gln Ala Leu Leu Leu Leu Gly Leu Pro Arg  
 1 5 10 15

Ala Pro Thr Leu Phe Pro Ala Leu Pro Glu Gly Pro Thr Ser Leu Gly  
 20 25 30

Glu Gln Trp Pro Pro Gln Leu Pro Pro His Leu Gly Ala Pro Pro Ala  
 35 40 45

Ala Glu Gly Ala Val Ala Met Val Gly Cys Gly Glu Gly Arg Gly Gly  
 50 55 60

Lys Pro Leu Cys Cys Ser Pro Ala Gln Ser Pro Ala Gln Arg Val Arg  
 65 70 75 80

Ser Gly Gly Asp Lys Glu Pro Ile Thr Thr Thr Glu Val Ser Leu Ile  
 85 90 95

Leu Leu His Ser Arg Cys Phe Asn Leu Thr Lys Leu Lys Lys Thr Ala  
 100 105 110

Phe Ala Met Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
 115 120 125

Lys Lys  
 130

<210> 1235  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

<400> 1235  
 Met Phe Leu Glu Leu Ser Gln Ala Leu Leu Leu Leu Gly Leu Pro Arg  
 1 5 10 15

Ala Pro Thr Leu Phe Pro Ala Leu Pro Glu Gly Pro Thr Ser Leu Gly  
 20 25 30

Glu Gln Trp Pro Pro Gln Leu Pro Pro His Leu Gly Ala Pro Pro Ala  
 35 40 45

Ala Glu Gly Ala Val Ala Met Val Gly Cys Gly Glu Gly Arg Gly Gly  
 50 55 60

Lys Pro Leu Cys Cys Ser Pro Ala Gln Ser Pro Ala Gln Arg Val Arg  
 65 70 75 80

Ser Gly Gly Asp Lys Glu Pro Ile Thr Thr Thr Glu Val Ser Leu Ile  
 85 90 95

Leu Leu His Ser Arg Cys Phe Asn Leu Thr Lys Leu Lys Lys Thr Ala  
 100 105 110

Phe Ala Met Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
 115 120 125

Lys Lys Lys Lys Lys  
 130

<210> 1236  
 <211> 399  
 <212> PRT  
 <213> Homo sapiens

<400> 1236

Met Gly Ile Leu Leu Gly Leu Leu Leu Gly His Leu Thr Val Asp  
 1 5 10 15  
 Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro  
 20 25 30  
 Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly  
 35 40 45  
 Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro  
 50 55 60  
 Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala  
 65 70 75 80  
 Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val  
 85 90 95  
 Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr  
 100 105 110  
 Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp  
 115 120 125  
 Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr  
 130 135 140  
 Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg  
 145 150 155 160  
 Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile  
 165 170 175  
 Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr  
 180 185 190  
 Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser  
 195 200 205  
 Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp  
 210 215 220  
 Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys  
 225 230 235 240  
 Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr  
 245 250 255  
 Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly  
 260 265 270  
 Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile  
 275 280 285

Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala Tyr Ile  
290 295 300

Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu Ala Ala  
305 310 315 320

Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met Arg Val  
325 330 335

Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser Gln Asn  
340 345 350

Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu Tyr Gln  
355 360 365

Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp Thr Val  
370 375 380

Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val Cys  
385 390 395

<210> 1237

<211> 399

<212> PRT

<213> Homo sapiens

<400> 1237

Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp  
1 5 10 15

Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro  
20 25 30

Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly  
35 40 45

Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro  
50 55 60

Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala  
65 70 75 80

Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val  
85 90 95

Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr  
100 105 110

Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp  
115 120 125

Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr  
130 135 140

Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg  
145 150 155 160

Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile  
 165 170 175  
 Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr  
 180 185 190  
 Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser  
 195 200 205  
 Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp  
 210 215 220  
 Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys  
 225 230 235 240  
 Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr  
 245 250 255  
 Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly  
 260 265 270  
 Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile  
 275 280 285  
 Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala Tyr Ile  
 290 295 300  
 Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu Ala Ala  
 305 310 315 320  
 Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met Arg Val  
 325 330 335  
 Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser Gln Asn  
 340 345 350  
 Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu Tyr Gln  
 355 360 365  
 Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp Thr Val  
 370 375 380  
 Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val Cys  
 385 390 395

&lt;210&gt; 1238

&lt;211&gt; 209

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)



<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1238

Met Ala Lys Phe Arg Arg Arg Thr Cys Ile Ile Leu Ala Leu Xaa Ile  
1 5 10 15

Leu Xaa Ile Phe Ser Leu Met Met Gly Leu Lys Met Leu Arg Pro Asn  
20 25 30

Thr Ala Thr Phe Gly Ala Pro Phe Gly Leu Asp Leu Leu Pro Glu Leu  
35 40 45

His Gln Arg Thr Ile His Leu Gly Lys Asn Phe Asp Phe Gln Lys Ser  
50 55 60

Asp Arg Ile Asn Ser Glu Thr Asn Thr Lys Asn Leu Lys Ser Val Glu  
65 70 75 80

Ile Thr Met Lys Pro Ser Lys Ala Ser Glu Leu Asn Leu Asp Glu Leu  
85 90 95

Pro Pro Leu Asn Asn Tyr Leu His Val Phe Tyr Tyr Ser Trp Tyr Gly  
100 105 110

Asn Pro Gln Phe Asp Gly Lys Tyr Ile His Trp Asn His Pro Val Xaa  
115 120 125

Glu His Trp Asp Pro Arg Ile Ala Lys Asn Tyr Pro Gln Gly Arg His  
130 135 140

Asn Pro Xaa Asp Asp Ile Gly Xaa Ser Phe Tyr Pro Glu Leu Gly Ser  
145 150 155 160

Tyr Ser Ser Arg Asp Pro Ser Val Ile Glu Thr His Met Arg Gln Met  
165 170 175

Arg Ser Ala Ser Ile Gly Asn Tyr Cys Ile Tyr Ile Tyr Met Cys Val  
180 185 190

Phe Val Ser Val Tyr Met His Ile Asn Asp Phe Leu Cys Asn Phe Asn  
195 200 205

Ser

<210> 1239  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 1239  
 Tyr Phe Asp Ile Ser Lys His Leu His Gly Asn His Tyr Ile Asp Pro  
     1                    5                    10                    15  
 Thr Cys Gly Phe Ser Ser Tyr Val His Leu Thr Arg Ile Tyr Tyr Phe  
                     20                    25                    30  
 Arg Tyr Asn Leu Gln Met Ser His Leu Ile Ile Phe Tyr Asn Ile Pro  
                     35                    40                    45  
 Tyr Phe Ile Lys Val Leu Leu Glu Lys Tyr Leu Pro Gln Arg Ser Phe  
                     50                    55                    60  
 Cys His Cys Val Arg Cys Val Phe Glu Pro Thr Met Thr Glu Ser Lys  
                     65                    70                    75                    80  
 Phe

<210> 1240  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

<400> 1240  
 Met Ala Lys Phe Arg Arg Arg Thr Cys Ile Ile Leu Ala Leu Phe Ile  
     1                    5                    10                    15  
 Leu Phe Ile Phe Ser Leu Met Met Gly Leu Lys Met Leu Arg Pro Asn  
                     20                    25                    30  
 Thr Ala Thr Phe Gly Ala Pro Phe Gly Leu Asp Leu Leu Pro Glu Leu  
                     35                    40                    45  
 His Gln Arg Thr Ile His Leu Gly Lys Asn Phe Asp Phe Gln Lys Ser  
                     50                    55                    60  
 Asp Arg Ile Asn Ser Glu Thr Asn Thr Lys Asn Leu Lys Ser Val Glu  
                     65                    70                    75                    80  
 Ile Thr Met Lys Pro Ser Lys Ala Ser Glu Leu Asn Leu Asp Glu Leu  
                     85                    90                    95  
 Pro Pro Leu Asn Asn Tyr Leu His Val Phe Tyr Tyr Ser Trp Tyr Gly  
                     100                    105                    110  
 Asn Pro Gln Phe Asp Gly Lys Tyr Ile His Trp Asn His Pro Val Leu  
                     115                    120                    125  
 Glu His Trp Asp Pro  
                     130

<210> 1241  
 <211> 886  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (216)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (234)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (275)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (871)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1241  
 Met Ala Ala Arg Gly Arg Gly Leu Leu Leu Thr Leu Ser Val Leu  
           1                  5                  10                  15  
 Leu Ala Ala Gly Pro Ser Ala Ala Ala Xaa Lys Leu Asn Ile Pro Lys  
                   20                  25                  30  
 Val Leu Leu Pro Phe Thr Arg Ala Thr Arg Val Asn Phe Thr Leu Glu  
                   35                  40                  45  
 Ala Ser Glu Gly Cys Tyr Arg Trp Leu Ser Thr Arg Pro Glu Val Ala  
           50                  55                  60  
 Ser Ile Glu Pro Leu Gly Leu Asp Glu Gln Gln Cys Ser Gln Lys Ala  
           65                  70                  75                  80  
 Val Val Gln Ala Arg Leu Thr Gln Pro Ala Arg Leu Thr Ser Ile Ile  
                   85                  90                  95  
 Phe Ala Glu Asp Ile Thr Thr Gly Gln Val Leu Arg Cys Asp Ala Ile  
                   100                  105                  110  
 Val Asp Leu Ile His Asp Ile Gln Ile Val Ser Thr Thr Arg Glu Leu  
           115                  120                  125  
 Tyr Leu Glu Asp Ser Pro Leu Glu Leu Lys Ile Gln Ala Leu Asp Ser  
           130                  135                  140

Glu Gly Asn Thr Phe Ser Thr Leu Ala Gly Leu Val Phe Glu Trp Thr  
 145 150 155 160  
 Ile Val Lys Asp Ser Glu Ala Asp Arg Phe Ser Asp Ser His Asn Ala  
 165 170 175  
 Leu Arg Ile Leu Thr Phe Leu Glu Ser Thr Tyr Ile Pro Pro Ser Tyr  
 180 185 190  
 Ile Ser Glu Met Glu Lys Ala Ala Lys Gln Gly Asp Thr Ile Leu Val  
 195 200 205  
 Ser Gly Met Lys Thr Gly Ser Xaa Lys Leu Lys Ala Arg Ile Gln Glu  
 210 215 220  
 Ala Val Tyr Lys Asn Val Arg Pro Ala Xaa Val Arg Leu Leu Ile Leu  
 225 230 235 240  
 Glu Asn Ile Leu Leu Asn Pro Ala Tyr Asp Val Tyr Leu Met Val Gly  
 245 250 255  
 Thr Ser Ile His Tyr Lys Val Gln Lys Ile Arg Gln Gly Lys Ile Thr  
 260 265 270  
 Glu Leu Xaa Met Pro Ser Asp Gln Tyr Glu Leu Gln Leu Gln Asn Ser  
 275 280 285  
 Ile Pro Gly Pro Glu Gly Asp Pro Thr Arg Pro Val Ala Val Leu Ala  
 290 295 300  
 Gln Asp Thr Ser Met Val Thr Ala Leu Gln Leu Gly Gln Ser Ser Leu  
 305 310 315 320  
 Val Leu Gly His Arg Ser Ile Arg Met Gln Gly Ala Ser Arg Leu Pro  
 325 330 335  
 Asn Ser Thr Ile Tyr Val Val Glu Pro Gly Tyr Leu Gly Phe Thr Val  
 340 345 350  
 His Pro Gly Asp Arg Trp Val Leu Glu Thr Gly Arg Leu Tyr Glu Ile  
 355 360 365  
 Thr Ile Glu Val Phe Asp Lys Phe Ser Asn Lys Val Tyr Val Ser Asp  
 370 375 380  
 Asn Ile Arg Ile Glu Thr Val Leu Pro Ala Glu Phe Phe Glu Val Leu  
 385 390 395 400  
 Ser Ser Ser Gln Asn Gly Ser Tyr His Arg Ile Arg Ala Leu Lys Arg  
 405 410 415  
 Gly Gln Thr Ala Ile Asp Ala Ala Leu Thr Ser Val Val Asp Gln Asp  
 420 425 430  
 Gly Gly Val His Ile Leu Gln Val Pro Val Trp Asn Gln Gln Glu Val  
 435 440 445  
 Glu Ile His Ile Pro Ile Thr Leu Tyr Pro Ser Ile Leu Thr Phe Pro  
 450 455 460

Trp Gln Pro Lys Thr Gly Ala Tyr Gln Tyr Thr Ile Arg Ala His Gly  
 465 470 475 480  
 Gly Ser Gly Asn Phe Ser Trp Ser Ser Ser Ser His Leu Val Ala Thr  
 485 490 495  
 Val Thr Val Lys Gly Val Met Thr Thr Gly Ser Asp Ile Gly Phe Ser  
 500 505 510  
 Val Ile Gln Ala His Asp Val Gln Asn Pro Leu His Phe Gly Glu Met  
 515 520 525  
 Lys Val Tyr Val Ile Glu Pro His Ser Met Glu Phe Ala Pro Cys Gln  
 530 535 540  
 Val Glu Ala Arg Val Gly Gln Ala Leu Glu Leu Pro Leu Arg Ile Ser  
 545 550 555 560  
 Gly Leu Met Pro Gly Gly Ala Ser Glu Val Val Thr Leu Ser Asp Cys  
 565 570 575  
 Ser His Phe Asp Leu Ala Val Glu Val Glu Asn Gln Gly Val Phe Gln  
 580 585 590  
 Pro Leu Pro Gly Arg Leu Pro Pro Gly Ser Glu His Cys Ser Gly Val  
 595 600 605  
 Arg Val Lys Ala Glu Ala Gln Gly Ser Thr Thr Leu Leu Val Ser Tyr  
 610 615 620  
 Arg His Gly His Val His Leu Ser Ala Lys Ile Thr Ile Ala Ala Tyr  
 625 630 635 640  
 Leu Pro Leu Lys Ala Val Asp Pro Ser Ser Val Ala Leu Val Thr Leu  
 645 650 655  
 Gly Ser Ser Lys Glu Met Leu Phe Glu Gly Gly Pro Arg Pro Trp Ile  
 660 665 670  
 Leu Glu Pro Ser Lys Phe Phe Gln Asn Val Thr Ala Glu Asp Thr Asp  
 675 680 685  
 Ser Ile Gly Leu Ala Leu Phe Ala Pro His Ser Ser Arg Asn Tyr Gln  
 690 695 700  
 Gln His Trp Ile Leu Val Thr Cys Gln Ala Leu Gly Glu Gln Val Ile  
 705 710 715 720  
 Ala Leu Ser Val Gly Asn Lys Pro Ser Leu Thr Asn Pro Phe Pro Ala  
 725 730 735  
 Val Glu Pro Ala Val Val Lys Phe Val Cys Ala Pro Pro Ser Arg Leu  
 740 745 750  
 Thr Leu Val Pro Val Tyr Thr Ser Pro Gln Leu Asp Met Ser Cys Pro  
 755 760 765  
 Leu Leu Gln Gln Asn Lys Gln Val Val Pro Val Ser Ser His Arg Asn  
 770 775 780

Pro Leu Leu Asp Leu Ala Ala Tyr Asp Gln Glu Gly Arg Arg Phe Asp  
785 790 795 800

Asn Phe Ser Ser Leu Ser Ile Gln Trp Glu Ser Thr Arg Pro Val Leu  
805 810 815

Ala Ser Ile Glu Pro Glu Leu Pro Met Gln Leu Val Ser Gln Asp Asp  
820 825 830

Glu Ser Gly Gln Lys Lys Leu His Gly Leu Gln Ala Ile Leu Val His  
835 840 845

Glu Ala Ser Gly Thr Thr Ala Ser Leu Pro Leu Pro Leu Ala Thr Arg  
850 855 860

Ser Pro Thr Ser Ala Leu Xaa Glu Gln Ser Ser Arg Met Thr Leu Trp  
865 870 875 880

Cys Leu Cys Arg Pro Pro  
885

<210> 1242

<211> 831

<212> PRT

<213> Homo sapiens

<400> 1242

Met Ala Ala Arg Gly Arg Gly Leu Leu Leu Leu Thr Leu Ser Val Leu  
1 5 10 15

Leu Ala Ala Gly Pro Ser Ala Ala Ala Lys Leu Asn Ile Pro Lys  
20 25 30

Val Leu Leu Pro Phe Thr Arg Ala Thr Arg Val Asn Phe Thr Leu Glu  
35 40 45

Ala Ser Glu Gly Cys Tyr Arg Trp Leu Ser Thr Arg Pro Glu Val Ala  
50 55 60

Ser Ile Glu Pro Leu Gly Leu Asp Glu Gln Gln Cys Ser Gln Lys Ala  
65 70 75 80

Val Val Gln Ala Arg Leu Thr Gln Pro Ala Arg Leu Thr Ser Ile Ile  
85 90 95

Phe Ala Glu Asp Ile Thr Thr Gly Gln Val Leu Arg Cys Asp Ala Ile  
100 105 110

Val Asp Leu Ile His Asp Ile Gln Ile Val Ser Thr Thr Arg Glu Leu  
115 120 125

Tyr Leu Glu Asp Ser Pro Leu Glu Leu Lys Ile Gln Ala Leu Asp Ser  
130 135 140

Glu Gly Asn Thr Phe Ser Thr Leu Ala Gly Leu Val Phe Glu Trp Thr  
145 150 155 160

Ile Val Lys Asp Ser Glu Ala Asp Arg Phe Ser Asp Ser His Asn Ala  
 165 170 175  
 Leu Arg Ile Leu Thr Phe Leu Glu Ser Thr Tyr Ile Pro Pro Ser Tyr  
 180 185 190  
 Ile Ser Glu Met Glu Lys Ala Ala Lys Gln Gly Asp Thr Ile Leu Val  
 195 200 205  
 Ser Gly Met Lys Thr Gly Ser Ser Lys Leu Lys Ala Arg Ile Gln Glu  
 210 215 220  
 Ala Val Tyr Lys Asn Val Arg Pro Ala Glu Val Arg Leu Leu Ile Leu  
 225 230 235 240  
 Glu Asn Ile Leu Leu Asn Pro Ala Tyr Asp Val Tyr Leu Met Val Gly  
 245 250 255  
 Thr Ser Ile His Tyr Lys Val Gln Lys Ile Arg Gln Gly Lys Ile Thr  
 260 265 270  
 Glu Leu Ser Met Pro Ser Asp Gln Tyr Glu Leu Gln Leu Gln Asn Ser  
 275 280 285  
 Ile Pro Gly Pro Glu Gly Asp Pro Thr Arg Pro Val Ala Val Leu Ala  
 290 295 300  
 Gln Asp Thr Ser Met Val Thr Ala Leu Gln Leu Gly Gln Ser Ser Leu  
 305 310 315 320  
 Val Leu Gly His Arg Ser Ile Arg Met Gln Gly Ala Ser Arg Leu Pro  
 325 330 335  
 Asn Ser Thr Ile Tyr Val Val Glu Pro Gly Tyr Leu Gly Phe Thr Val  
 340 345 350  
 His Pro Gly Asp Arg Trp Val Leu Glu Thr Gly Arg Leu Tyr Glu Ile  
 355 360 365  
 Thr Ile Glu Val Phe Asp Lys Phe Ser Asn Lys Val Tyr Val Ser Asp  
 370 375 380  
 Asn Ile Arg Ile Glu Thr Val Leu Pro Ala Glu Phe Phe Glu Val Leu  
 385 390 395 400  
 Ser Ser Ser Gln Asn Gly Ser Tyr His Arg Ile Arg Ala Leu Lys Arg  
 405 410 415  
 Gly Gln Thr Ala Ile Asp Ala Ala Leu Thr Ser Val Val Asp Gln Asp  
 420 425 430  
 Gly Gly Val His Ile Leu Gln Val Pro Val Trp Asn Gln Gln Glu Val  
 435 440 445  
 Glu Ile His Ile Pro Ile Thr Leu Tyr Pro Ser Ile Leu Thr Phe Pro  
 450 455 460  
 Trp Gln Pro Lys Thr Gly Ala Tyr Gln Tyr Thr Ile Arg Ala His Gly  
 465 470 475 480

Gly Ser Gly Asn Phe Ser Trp Ser Ser Ser Ser His Leu Val Ala Thr  
 485 490 495  
 Val Thr Val Lys Gly Val Met Thr Thr Gly Ser Asp Ile Gly Phe Ser  
 500 505 510  
 Val Ile Gln Ala His Asp Val Gln Asn Pro Leu His Phe Gly Glu Met  
 515 520 525  
 Lys Val Tyr Val Ile Glu Pro His Ser Met Glu Phe Ala Pro Cys Gln  
 530 535 540  
 Val Glu Ala Arg Val Gly Gln Ala Leu Glu Leu Pro Leu Arg Ile Ser  
 545 550 555 560  
 Gly Leu Met Pro Gly Gly Ala Ser Glu Val Val Thr Leu Ser Asp Cys  
 565 570 575  
 Ser His Phe Asp Leu Ala Val Glu Val Glu Asn Gln Gly Val Phe Gln  
 580 585 590  
 Pro Leu Pro Gly Arg Leu Pro Pro Gly Ser Glu His Cys Ser Gly Val  
 595 600 605  
 Arg Val Lys Ala Glu Ala Gln Gly Ser Thr Thr Leu Leu Val Ser Tyr  
 610 615 620  
 Arg His Gly His Val His Leu Ser Ala Lys Ile Thr Ile Ala Ala Tyr  
 625 630 635 640  
 Leu Pro Leu Lys Ala Val Asp Pro Ser Ser Val Ala Leu Val Thr Leu  
 645 650 655  
 Gly Ser Ser Lys Glu Met Leu Phe Glu Gly Gly Pro Arg Pro Trp Ile  
 660 665 670  
 Leu Glu Pro Ser Lys Phe Phe Gln Asn Val Thr Ala Glu Asp Thr Asp  
 675 680 685  
 Ser Ile Gly Leu Ala Leu Phe Ala Pro His Ser Ser Arg Asn Tyr Gln  
 690 695 700  
 Gln His Trp Ile Leu Val Thr Cys Gln Ala Leu Gly Glu Gln Val Ile  
 705 710 715 720  
 Ala Leu Ser Val Gly Asn Lys Pro Ser Leu Thr Asn Pro Phe Pro Ala  
 725 730 735  
 Val Glu Pro Ala Val Val Lys Phe Val Cys Ala Pro Pro Ser Arg Leu  
 740 745 750  
 Thr Leu Val Pro Val Tyr Thr Ser Pro Gln Leu Asp Met Ser Cys Pro  
 755 760 765  
 Leu Leu Gln Gln Asn Lys Gln Val Val Pro Val Ser Ser His Arg Asn  
 770 775 780  
 Pro Leu Leu Asp Leu Ala Ala Tyr Asp Gln Glu Gly Arg Arg Phe Asp  
 785 790 795 800



Asn Phe Ser Ser Leu Ser Ile Gln Trp Glu Ser Thr Arg Pro Val Leu  
 805 810 815

Ala Ala Ser Ser Leu Ser Cys His Ala Ala Gly Val Pro Gly Arg  
 820 825 830

<210> 1243  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1243  
 Met Pro Val Pro Leu Leu Ala Ser Ala Ala Trp Cys His Leu Cys Ala  
 1 5 10 15

Gly Ala Leu Pro Ala Trp Leu Trp Leu Pro Gly Gly Gln Leu Leu His  
 20 25 30

Asn Gly Thr Cys Val Pro Xaa Thr Ala Cys Pro Cys Thr Gln His Ser  
 35 40 45

Leu Pro Trp Gly Leu Thr Leu Thr Leu Glu Glu Gln Ala Gln Glu Leu  
 50 55 60

Xaa Pro Gly Thr Val Leu Thr Arg Asn Cys Thr Pro Leu Cys Leu Pro  
 65 70 75 80

Leu Trp Ser Leu Gln Leu Leu Pro Arg  
 85

<210> 1244  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 1244  
 Ser Gly Trp Gln Val Pro Ser Ser Val Lys His Leu Pro Tyr Asp Asn  
 1 5 10 15

Leu Arg Ser His Cys Val Ala Asp Glu Gly Glu Thr Glu Val Glu Gly  
 20 25 30

Thr Arg Ala Thr Trp Val Glu His Ser Gly Arg Pro Gly Val Gly Ser  
 35 40 45

Gly Arg Pro Pro Gly Thr Ser Leu Thr Thr Leu Pro Leu Leu Thr  
 709

50

55

60

His Leu Ser Leu Thr Cys Pro Leu Gly Gly Asp Phe Ser Lys Arg  
 65 70 75

&lt;210&gt; 1245

&lt;211&gt; 89

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1245

Met Pro Val Pro Leu Leu Ala Ser Ala Ala Trp Cys His Leu Cys Ala  
 1 5 10 15

Gly Ala Leu Pro Ala Trp Leu Trp Leu Pro Trp Arg Ala Ala Ala Ala  
 20 25 30

Gln Trp His Val Cys Ala Ser His Cys Leu Pro Leu His Pro Ala Phe  
 35 40 45

Ser Ala Leu Gly Pro His Pro Asp Pro Gly Arg Ala Gly Pro Gly Ala  
 50 55 60

Ala Pro Arg Asp Cys Ala His Pro Glu Leu His Pro Leu Cys Leu Pro  
 65 70 75 80

Arg Trp Ser Leu Gln Leu Leu Pro Arg  
 85

&lt;210&gt; 1246

&lt;211&gt; 334

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (124)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (129)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (214)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (224)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1246

Met Asp Gln Ala Leu Ser Leu Trp Phe Leu Leu Gly Trp Ile Gly Gly

1                      5                      10                      15  
 Asp Ser Cys Asn Leu Ile Gly Ser Phe Leu Ala Asp Gln Leu Pro Leu  
                     20                      25                      30  
 Gln Thr Tyr Thr Ala Val Tyr Tyr Val Leu Ala Asp Leu Val Met Leu  
                     35                      40                      45  
 Thr Leu Tyr Phe Tyr Tyr Lys Phe Arg Thr Arg Pro Ser Leu Leu Ser  
                     50                      55                      60  
 Ala Pro Ile Asn Ser Val Leu Leu Phe Leu Met Gly Met Ala Cys Ala  
                     65                      70                      75                      80  
 Thr Pro Leu Leu Ser Ala Ala Gly Pro Val Ala Ala Pro Arg Glu Ala  
                     85                      90                      95  
 Phe Arg Gly Arg Ala Leu Leu Ser Val Glu Ser Gly Ser Lys Pro Phe  
                     100                      105                      110  
 Thr Arg Gln Glu Val Ile Gly Phe Val Ile Gly Xaa Ile Ser Ser Val  
                     115                      120                      125  
 Xaa Tyr Leu Leu Ser Arg Leu Pro Gln Ile Arg Thr Asn Phe Leu Arg  
                     130                      135                      140  
 Lys Ser Thr Gln Gly Ile Ser Tyr Ser Leu Phe Ala Leu Val Met Leu  
                     145                      150                      155                      160  
 Gly Asn Thr Leu Tyr Gly Leu Ser Val Leu Leu Lys Asn Pro Glu Glu  
                     165                      170                      175  
 Gly Gln Ser Glu Gly Ser Tyr Leu Leu His His Leu Pro Trp Leu Val  
                     180                      185                      190  
 Gly Ser Leu Gly Val Leu Leu Leu Asp Thr Ile Ile Ser Ile Gln Phe  
                     195                      200                      205  
 Leu Val Tyr Arg Arg Xaa Pro Pro Pro Arg Ser Leu Ser Pro Ser Xaa  
                     210                      215                      220  
 Pro Ala Asp Gln Asn Gln Ala Glu Arg Arg Arg Thr Gly Thr Thr Gly  
                     225                      230                      235                      240  
 Cys His Thr Arg Gln Glu Glu Val Trp Thr Val Met Val Arg Arg Pro  
                     245                      250                      255  
 Cys Ile Ser Leu Arg Val Ala Ser Gly Ser Ser Val Asp Arg Thr Val  
                     260                      265                      270  
 Pro Pro Gly Thr His Leu Gln Val Asp Pro Glu Ala Ser Arg Pro Gly  
                     275                      280                      285  
 Leu Glu Arg Arg Pro Gln Gly Leu Ser Gly Asp Ser Glu Ala Ala Pro  
                     290                      295                      300  
 Pro Thr Thr Tyr Leu Ile Leu Pro Thr Gln Asp Cys Pro Val Asn Ser  
                     305                      310                      315                      320  
 Arg Gln Leu Asn Lys Gln Ala Gly Tyr Ser Gly Ser His Leu

325

330

<210> 1247  
 <211> 226  
 <212> PRT  
 <213> Homo sapiens

<400> 1247  
 Met Asp Gln Ala Leu Ser Leu Trp Phe Leu Leu Gly Trp Ile Gly Gly  
 1 5 10 15  
 Asp Ser Cys Asn Leu Ile Gly Ser Phe Leu Ala Asp Gln Leu Pro Leu  
 20 25 30  
 Gln Thr Tyr Thr Ala Val Tyr Tyr Val Leu Ala Asp Leu Val Met Leu  
 35 40 45  
 Thr Leu Tyr Phe Tyr Tyr Lys Phe Arg Thr Arg Pro Ser Leu Leu Ser  
 50 55 60  
 Ala Pro Ile Asn Ser Val Leu Leu Phe Leu Met Gly Met Ala Cys Ala  
 65 70 75 80  
 Thr Pro Leu Leu Ser Ala Ala Gly Pro Val Ala Ala Pro Arg Glu Ala  
 85 90 95  
 Phe Arg Gly Arg Ala Leu Leu Ser Val Glu Ser Gly Ser Lys Pro Phe  
 100 105 110  
 Thr Arg Gln Glu Val Ile Gly Phe Val Ile Gly Ser Ile Ser Ser Val  
 115 120 125  
 Leu Tyr Leu Leu Ser Arg Leu Pro Gln Ile Arg Thr Asn Phe Leu Arg  
 130 135 140  
 Lys Ser Thr Gln Gly Ile Ser Tyr Ser Leu Phe Ala Leu Val Met Leu  
 145 150 155 160  
 Gly Asn Thr Leu Tyr Gly Leu Ser Val Leu Leu Lys Asn Pro Glu Glu  
 165 170 175  
 Gly Gln Ser Glu Gly Ser Tyr Leu Leu His His Leu Pro Trp Leu Val  
 180 185 190  
 Gly Ser Leu Gly Val Leu Leu Leu Asp Thr Ile Ile Ser Ile Gln Phe  
 195 200 205  
 Leu Val Tyr Arg Arg Ser Thr Ala Ala Ser Glu Leu Glu Pro Leu Leu  
 210 215 220  
 Pro Ser  
 225

<210> 1248  
 <211> 184  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1248

Met Lys Ile Leu Val Ala Phe Leu Val Val Leu Thr Ile Phe Gly Ile  
 1 5 10 15

Gln Ser His Gly Tyr Glu Val Phe Asn Ile Ile Ser Pro Ser Asn Asn  
 20 25 30

Gly Gly Asn Val Gln Glu Thr Val Thr Ile Asp Asn Glu Lys Asn Thr  
 35 40 45

Ala Ile Ile Asn Ile His Ala Gly Ser Cys Ser Ser Thr Thr Ile Phe  
 50 55 60

Asp Tyr Lys His Gly Tyr Ile Ala Ser Arg Val Leu Ser Arg Arg Ala  
 65 70 75 80

Cys Phe Ile Leu Lys Met Asp His Gln Asn Ile Pro Pro Leu Asn Asn  
 85 90 95

Leu Gln Trp Tyr Ile Tyr Glu Lys Gln Ala Leu Asp Asn Met Phe Ser  
 100 105 110

Ser Lys Tyr Thr Trp Val Lys Tyr Asn Pro Leu Glu Ser Leu Ile Lys  
 115 120 125

Asp Val Asp Trp Phe Leu Leu Gly Ser Pro Ile Glu Lys Leu Cys Lys  
 130 135 140

His Ile Pro Leu Tyr Lys Gly Glu Val Val Glu Asn Thr His Asn Val  
 145 150 155 160

Gly Ala Gly Gly Cys Ala Lys Ala Gly Leu Leu Gly Ile Leu Gly Ile  
 165 170 175

Ser Ile Cys Ala Asp Ile His Val  
 180

&lt;210&gt; 1249

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1249

Met Lys Ile Leu Val Ala Phe Leu Val Val Leu Thr Ile Phe Gly Ile  
 1 5 10 15

Gln Ser His Gly Tyr Glu Val Phe Asn Ile Ile Ser Pro Ser Asn Asn  
 20 25 30

Gly Gly Asn Val Gln Glu Thr Val Thr Ile Asp Asn Glu Lys Asn Thr  
 35 40 45

Ala Ile Ile Asn Ile His Ala Gly Ser Cys Ser Ser Thr Thr Ile Phe  
 50 55 60

Asp Tyr Lys His Gly Tyr Ile Ala Ser Arg Val Leu Ser Arg Arg Ala

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<210> 1250
<211> 173
<212> PRT
<213> Homo sapiens
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<400> 1250
Met Ala Val Arg Ala Leu Lys Leu Leu Thr Thr Leu Leu Ala Val Val
  1              5              10              15

Ala Ala Ala Ser Gln Ala Glu Val Glu Ser Glu Ala Gly Trp Gly Met
  20              25              30

Val Thr Pro Asp Leu Leu Phe Ala Glu Gly Thr Ala Ala Tyr Ala Arg
  35              40              45

Gly Asp Trp Pro Gly Val Val Leu Ser Met Glu Arg Ala Leu Arg Ser
  50              55              60

Arg Ala Ala Leu Arg Ala Leu Arg Leu Arg Cys Arg Thr Gln Cys Ala
  65              70              75              80

Ala Asp Phe Pro Trp Glu Leu Asp Pro Asp Trp Ser Pro Ser Pro Ala
  85              90              95

Gln Ala Ser Gly Ala Ala Ala Leu Arg Asp Leu Ser Phe Phe Gly Gly
  100             105             110

Leu Leu Arg Arg Ala Ala Cys Leu Arg Arg Cys Leu Gly Pro Pro Ala
  115             120             125

Ala Thr Arg Ser Ala Lys Arg Trp Ser Trp Ser Ser Ala Ser Gly Pro
  130             135             140

Leu Gln Leu Pro Ala Gly Arg Leu Leu Gln Asp Gln Gln Val Gly Glu
  145             150             155             160

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Ser Cys Cys Cys Ser Thr His Leu Leu Arg Gly Gln Ser  
 165 170

<210> 1251

<211> 359

<212> PRT

<213> Homo sapiens

<400> 1251

Met Ala Val Arg Ala Leu Lys Leu Leu Thr Thr Leu Leu Ala Val Val  
 1 5 10 15

Ala Ala Ala Ser Gln Ala Glu Val Glu Ser Glu Ala Gly Trp Gly Met  
 20 25 30

Val Thr Pro Asp Leu Leu Phe Ala Glu Gly Thr Ala Ala Tyr Ala Arg  
 35 40 45

Gly Asp Trp Pro Gly Val Val Leu Ser Met Glu Arg Ala Leu Arg Ser  
 50 55 60

Arg Ala Ala Leu Arg Ala Leu Arg Leu Arg Cys Arg Thr Gln Cys Ala  
 65 70 75 80

Ala Asp Phe Pro Trp Glu Leu Asp Pro Asp Trp Ser Pro Ser Pro Ala  
 85 90 95

Gln Ala Ser Gly Ala Ala Ala Leu Arg Asp Leu Ser Phe Phe Gly Gly  
 100 105 110

Leu Leu Arg Arg Ala Ala Cys Leu Arg Arg Cys Leu Gly Pro Pro Ala  
 115 120 125

Ala His Ser Leu Ser Glu Glu Met Glu Leu Glu Phe Arg Lys Arg Ser  
 130 135 140

Pro Tyr Asn Tyr Leu Gln Val Ala Tyr Phe Lys Ile Asn Lys Leu Glu  
 145 150 155 160

Lys Ala Val Ala Ala Ala His Thr Phe Phe Val Gly Asn Pro Glu His  
 165 170 175

Met Glu Met Gln Gln Asn Leu Asp Tyr Tyr Gln Thr Met Ser Gly Val  
 180 185 190

Lys Glu Ala Asp Phe Lys Asp Leu Glu Thr Gln Pro His Met Gln Glu  
 195 200 205

Phe Arg Leu Gly Val Arg Leu Tyr Ser Glu Glu Gln Pro Gln Glu Ala  
 210 215 220

Val Pro His Leu Glu Ala Ala Leu Gln Glu Tyr Phe Val Ala Tyr Glu  
 225 230 235 240

Glu Cys Arg Ala Leu Cys Glu Gly Pro Tyr Asp Tyr Asp Gly Tyr Asn  
 245 250 255

Tyr Leu Glu Tyr Asn Ala Asp Leu Phe Gln Ala Ile Thr Asp His Tyr  
 260 265 270

Ile Gln Val Leu Asn Cys Lys Gln Asn Cys Val Thr Glu Leu Ala Ser  
 275 280 285

His Pro Ser Arg Glu Lys Pro Phe Glu Asp Phe Leu Pro Ser His Tyr  
 290 295 300

Asn Tyr Leu Gln Phe Ala Tyr Tyr Asn Ile Gly Asn Tyr Thr Gln Ala  
 305 310 315 320

Val Glu Cys Ala Lys Thr Tyr Leu Leu Phe Phe Pro Asn Asp Glu Val  
 325 330 335

Met Asn Gln Asn Leu Ala Leu Leu Cys Ser Tyr Ala Trp Arg Arg Thr  
 340 345 350

His Gln Ile His Arg Pro Pro  
 355

<210> 1252  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 1252  
 Met Thr Ile Phe Thr Pro Phe Leu Val Leu Leu Leu Val Asn Ser  
 1 5 10 15

Pro Arg Phe Ser Thr Ile Thr Leu Met Arg Ser Gly Phe His Asn Pro  
 20 25 30

Ser Val Cys Leu Ser Phe Thr Leu Lys Pro Gln Cys Tyr Leu Val Leu  
 35 40 45

Met Tyr Gln Lys Asn Arg Arg Gln Asp Gly Ser Lys Val Phe Phe Lys  
 50 55 60

Thr Ala Arg Leu Lys Phe Tyr Leu Asn Ile Thr Ala Lys  
 65 70 75

<210> 1253  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 1253  
 Met Thr Ile Phe Thr Pro Phe Leu Val Leu Leu Leu Val Asn Ser  
 1 5 10 15

Pro Arg Phe Ser Thr Ile Thr Leu Met Arg Ser Gly Phe His Asn Pro  
 20 25 30

Ser Val Cys Leu Ser Phe Thr Leu Lys Pro Gln Cys Tyr Leu Val Leu  
 35 40 45



Met Tyr Gln Lys Asn Arg Arg Gln Asp Gly Ser Lys Val Phe Phe Lys  
 50 55 60

Thr Ala Arg Leu Lys Phe Tyr Leu Asn Ile Thr Ala Lys  
 65 70 75

<210> 1254

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1254

Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu  
 1 5 10 15

Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr  
 20 25 30

Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys  
 35 40 45

Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys  
 50 55 60

Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala  
 65 70 75 80

Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile  
 85 90 95

Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg  
 100 105 110

Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly  
 115 120 125

Ser Leu Leu Gly Phe Ile Pro Xaa Ala Trp Asn Leu  
 130 135 140

<210> 1255

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1255

Arg Arg Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile  
 1 5 10 15

Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile  
 20 25 30

Xaa Gly Ile Ile Leu Cys Phe Ser Cys Ser Xaa Gln Arg Asn Arg Ser  
 35 40 45

Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser  
 50 55 60

Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr  
 65 70 75 80

Ser Leu Thr Gly Tyr Val  
 85

&lt;210&gt; 1256

&lt;211&gt; 230

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1256

Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu  
 1 5 10 15

Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr  
 20 25 30

Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys  
 35 40 45

Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys  
 50 55 60

Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala  
 65 70 75 80

Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile  
 85 90 95

Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg  
 100 105 110

Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly  
 115 120 125

Gly Leu Leu Gly Phe Ile Pro Val Ala Trp Asn Leu His Gly Ile Leu  
 130 135 140

Arg Asp Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile  
 145 150 155 160

Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile  
 165 170 175  
 Ala Gly Ile Ile Leu Cys Phe Ser Cys Ser Ser Gln Arg Asn Arg Ser  
 180 185 190  
 Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser  
 195 200 205  
 Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr  
 210 215 220  
 Ser Leu Thr Gly Tyr Val  
 225 230

<210> 1257  
 <211> 331  
 <212> PRT  
 <213> Homo sapiens

<400> 1257  
 Met Trp Leu Trp Glu Asp Gln Gly Gly Leu Leu Gly Pro Phe Ser Phe  
 1 5 10 15  
 Leu Leu Leu Val Leu Leu Leu Val Thr Arg Ser Pro Val Asn Ala Cys  
 20 25 30  
 Leu Leu Thr Gly Ser Leu Phe Val Leu Leu Arg Val Phe Ser Phe Glu  
 35 40 45  
 Pro Val Pro Ser Cys Arg Ala Leu Gln Val Leu Lys Pro Arg Asp Arg  
 50 55 60  
 Ile Ser Ala Ile Ala His Arg Gly Gly Ser His Asp Ala Pro Glu Asn  
 65 70 75 80  
 Thr Leu Ala Ala Ile Arg Gln Ala Ala Lys Asn Gly Ala Thr Gly Val  
 85 90 95  
 Glu Leu Asp Ile Glu Phe Thr Ser Asp Gly Ile Pro Val Leu Met His  
 100 105 110  
 Asp Asn Thr Val Asp Arg Thr Thr Asp Gly Thr Gly Arg Leu Cys Asp  
 115 120 125  
 Leu Thr Phe Glu Gln Ile Arg Lys Leu Asn Pro Ala Ala Asn His Arg  
 130 135 140  
 Leu Arg Asn Asp Phe Pro Asp Glu Lys Ile Pro Thr Leu Arg Glu Ala  
 145 150 155 160  
 Val Ala Glu Cys Leu Asn His Asn Leu Thr Ile Phe Phe Asp Val Lys  
 165 170 175  
 Gly His Ala His Lys Ala Thr Glu Ala Leu Lys Lys Met Tyr Met Glu  
 180 185 190

Phe Pro Gln Leu Tyr Asn Asn Ser Val Val Cys Ser Phe Leu Pro Glu  
195 200 205

Val Ile Tyr Lys Met Arg Gln Thr Asp Arg Asp Val Ile Thr Ala Leu  
210 215 220

Thr His Arg Pro Trp Ser Leu Ser His Thr Gly Asp Gly Lys Pro Arg  
225 230 235 240

Tyr Asp Thr Phe Trp Lys His Phe Ile Phe Val Met Met Asp Ile Leu  
245 250 255

Leu Asp Trp Ser Met His Asn Ile Leu Trp Tyr Leu Cys Gly Ile Ser  
260 265 270

Ala Phe Leu Met Gln Lys Asp Phe Val Ser Pro Ala Tyr Leu Lys Lys  
275 280 285

Trp Ser Ala Lys Gly Ile Gln Val Val Gly Trp Thr Val Asn Thr Phe  
290 295 300

Asp Glu Lys Ser Tyr Tyr Glu Ser His Leu Gly Ser Ser Tyr Ile Thr  
305 310 315 320

Asp Ser Met Val Glu Asp Cys Glu Pro His Phe  
325 330

<210> 1258

<211> 27

<212> PRT

<213> Homo sapiens

<400> 1258

Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg  
1 5 10 15

Pro Ile Gly Val His Leu His Ser Val Arg Asp  
20 25

<210> 1259

<211> 485

<212> PRT

<213> Homo sapiens

<400> 1259

Ala Arg Gly Arg Leu Leu Pro Trp Trp Leu Ala Ala Gly Cys Ser Met  
1 5 10 15

Ser Arg Leu Gly Ala Leu Gly Gly Ala Arg Ala Gly Leu Gly Leu Leu  
20 25 30

Leu Gly Thr Ala Ala Gly Leu Gly Phe Leu Cys Leu Leu Tyr Ser Gln  
35 40 45

Arg Trp Lys Arg Thr Gln Arg His Gly Arg Ser Gln Ser Leu Pro Asn  
50 55 60

Ser Leu Asp Tyr Thr Gln Thr Ser Asp Pro Gly Arg His Val Met Leu  
 65 70 75 80  
 Leu Arg Ala Val Pro Gly Gly Ala Gly Asp Ala Ser Val Leu Pro Ser  
 85 90 95  
 Leu Pro Arg Glu Gly Gln Glu Lys Val Leu Asp Arg Leu Asp Phe Val  
 100 105 110  
 Leu Thr Ser Leu Val Ala Leu Arg Arg Glu Val Glu Glu Leu Arg Ser  
 115 120 125  
 Ser Leu Arg Gly Leu Ala Gly Glu Ile Val Gly Glu Val Arg Cys His  
 130 135 140  
 Met Glu Glu Asn Gln Arg Val Ala Arg Arg Arg Arg Phe Pro Phe Val  
 145 150 155 160  
 Arg Glu Arg Ser Asp Ser Thr Gly Ser Ser Ser Val Tyr Phe Thr Ala  
 165 170 175  
 Ser Ser Gly Ala Thr Phe Thr Asp Ala Glu Ser Glu Gly Gly Tyr Thr  
 180 185 190  
 Thr Ala Asn Ala Glu Ser Asp Asn Glu Arg Asp Ser Asp Lys Glu Ser  
 195 200 205  
 Glu Asp Gly Glu Asp Glu Val Ser Cys Glu Thr Val Lys Met Gly Arg  
 210 215 220  
 Lys Asp Ser Leu Asp Leu Glu Glu Glu Ala Ala Ser Gly Ala Ser Ser  
 225 230 235 240  
 Ala Leu Glu Ala Gly Gly Ser Ser Gly Leu Glu Asp Val Leu Pro Leu  
 245 250 255  
 Leu Gln Gln Ala Asp Glu Leu His Arg Gly Asp Glu Gln Gly Lys Arg  
 260 265 270  
 Glu Gly Phe Gln Leu Leu Leu Asn Asn Lys Leu Val Tyr Gly Ser Arg  
 275 280 285  
 Gln Asp Phe Leu Trp Arg Leu Ala Arg Ala Tyr Ser Asp Met Cys Glu  
 290 295 300  
 Leu Thr Glu Glu Val Ser Glu Lys Lys Ser Tyr Ala Leu Asp Gly Lys  
 305 310 315 320  
 Glu Glu Ala Glu Ala Ala Leu Glu Lys Gly Asp Glu Ser Ala Asp Cys  
 325 330 335  
 His Leu Trp Tyr Ala Val Leu Cys Gly Gln Leu Ala Glu His Glu Ser  
 340 345 350  
 Ile Gln Arg Arg Ile Gln Ser Gly Phe Ser Phe Lys Glu His Val Asp  
 355 360 365  
 Lys Ala Ile Ala Leu Gln Pro Glu Asn Pro Met Ala His Phe Leu Leu  
 370 375 380

Gly Arg Trp Cys Tyr Gln Val Ser His Leu Ser Trp Leu Glu Lys Lys  
385 390 395 400

Thr Ala Thr Ala Leu Leu Glu Ser Pro Leu Ser Ala Thr Val Glu Asp  
405 410 415

Ala Leu Gln Ser Phe Leu Lys Ala Glu Glu Leu Gln Pro Gly Phe Ser  
420 425 430

Lys Ala Gly Arg Val Tyr Ile Ser Lys Cys Tyr Arg Glu Leu Gly Lys  
435 440 445

Asn Ser Glu Ala Arg Trp Trp Met Lys Leu Ala Leu Glu Leu Pro Asp  
450 455 460

Val Thr Lys Glu Asp Leu Ala Ile Gln Lys Asp Leu Glu Glu Leu Glu  
465 470 475 480

Val Ile Leu Arg Asp  
485

<210> 1260

<211> 470

<212> PRT

<213> Homo sapiens

<400> 1260

Met Ser Arg Leu Gly Ala Leu Gly Gly Ala Arg Ala Gly Leu Gly Leu  
1 5 10 15

Leu Leu Gly Thr Ala Ala Gly Leu Gly Phe Leu Cys Leu Leu Tyr Ser  
20 25 30

Gln Arg Trp Lys Arg Thr Gln Arg His Gly Arg Ser Gln Ser Leu Pro  
35 40 45

Asn Ser Leu Asp Tyr Thr Gln Thr Ser Asp Pro Gly Arg His Val Met  
50 55 60

Leu Leu Arg Ala Val Pro Gly Gly Ala Gly Asp Ala Ser Val Leu Pro  
65 70 75 80

Ser Leu Pro Arg Glu Gly Gln Glu Lys Val Leu Asp Arg Leu Asp Phe  
85 90 95

Val Leu Thr Ser Leu Val Ala Leu Arg Arg Glu Val Glu Glu Leu Arg  
100 105 110

Ser Ser Leu Arg Gly Leu Ala Gly Glu Ile Val Gly Glu Val Arg Cys  
115 120 125

His Met Glu Glu Asn Gln Arg Val Ala Arg Arg Arg Arg Phe Pro Phe  
130 135 140

Val Arg Glu Arg Ser Asp Ser Thr Gly Ser Ser Ser Val Tyr Phe Thr  
145 150 155 160

Ala Ser Ser Gly Ala Thr Phe Thr Asp Ala Glu Ser Glu Gly Gly Tyr  
165 170 175

Thr Thr Ala Asn Ala Glu Ser Asp Asn Glu Arg Asp Ser Asp Lys Glu  
180 185 190

Ser Glu Asp Gly Glu Asp Glu Val Ser Cys Glu Thr Val Lys Met Gly  
195 200 205

Arg Lys Asp Ser Leu Asp Leu Glu Glu Glu Ala Ala Ser Gly Ala Ser  
210 215 220

Ser Ala Leu Glu Ala Gly Gly Ser Ser Gly Leu Glu Asp Val Leu Pro  
225 230 235 240

Leu Leu Gln Gln Ala Asp Glu Leu His Arg Gly Asp Glu Gln Gly Lys  
245 250 255

Arg Glu Gly Phe Gln Leu Leu Leu Asn Asn Lys Leu Val Tyr Gly Ser  
260 265 270

Arg Gln Asp Phe Leu Trp Arg Leu Ala Arg Ala Tyr Ser Asp Met Cys  
275 280 285

Glu Leu Thr Glu Glu Val Ser Glu Lys Lys Ser Tyr Ala Leu Asp Gly  
290 295 300

Lys Glu Glu Ala Glu Ala Ala Leu Glu Lys Gly Asp Glu Ser Ala Asp  
305 310 315 320

Cys His Leu Trp Tyr Ala Val Leu Cys Gly Gln Leu Ala Glu His Glu  
325 330 335

Ser Ile Gln Arg Arg Ile Gln Ser Gly Phe Ser Phe Lys Glu His Val  
340 345 350

Asp Lys Ala Ile Ala Leu Gln Pro Glu Asn Pro Met Ala His Phe Leu  
355 360 365

Leu Gly Arg Trp Cys Tyr Gln Val Ser His Leu Ser Trp Leu Glu Lys  
370 375 380

Lys Thr Ala Thr Ala Leu Leu Glu Ser Pro Leu Ser Ala Thr Val Glu  
385 390 395 400

Asp Ala Leu Gln Ser Phe Leu Lys Ala Glu Glu Leu Gln Pro Gly Phe  
405 410 415

Ser Lys Ala Gly Arg Val Tyr Ile Ser Lys Cys Tyr Arg Glu Leu Gly  
420 425 430

Lys Asn Ser Glu Ala Arg Trp Trp Met Lys Leu Ala Leu Glu Leu Pro  
435 440 445

Asp Val Thr Lys Glu Asp Leu Ala Ile Gln Lys Asp Leu Glu Glu Leu  
450 455 460

Glu Val Ile Leu Arg Asp  
465 470





Met His Leu Leu Leu Pro Pro Gly Leu  
 100 105

<210> 1264  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 1264  
 Met Leu Val Cys Met Leu Gly Cys Leu Ala Asn Leu Val Val Val Gly  
 1 5 10 15  
 Phe Leu Lys Glu Lys Thr Phe Pro Leu Ala Met Ala Arg Thr Arg Gly  
 20 25 30  
 Ser Ser Leu Ser Leu Leu Pro Thr Pro Pro Phe Pro Cys Pro Cys Pro  
 35 40 45  
 Asp Ala Ser Arg Leu Arg Glu Lys His Cys Ile Gln Thr Glu Gly Ser  
 50 55 60  
 Ala Ala Ser Phe Gln Lys Val Ile Gly Lys Ala Leu Glu Arg Arg Ala  
 65 70 75 80  
 Val Leu Gln Leu Ala Leu Phe Leu His His Pro Pro Ser Leu Cys Ile  
 85 90 95  
 Met His Leu Leu Leu Pro Pro Gly Leu  
 100 105

<210> 1265  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (101)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1265  
 Met Thr Leu Cys Leu Val Thr Phe Leu Thr Ser Leu Pro Thr Ser Val  
 1 5 10 15  
 Pro Ala Cys Thr Ser Cys Trp Pro Gly Phe Met Arg Ser Ser Lys Asn  
 20 25 30  
 Ala Tyr Asp Thr His His Trp Gly Gly Gln Arg Ser Met Asn Leu Glu  
 35 40 45  
 Ser Leu Thr Cys Gly Gln Leu Ala Ile Arg Trp Thr Arg Gly Trp Met  
 50 55 60  
 Thr Arg Pro Arg Gln Val Trp Ala Met Pro Gly Gln Thr Val Asp Val  
 65 70 75 80

Tyr Leu Gly Arg Met Leu Gln Gly Val Val Leu Arg Gly Gln Thr Leu  
85 90 95

Arg Gly Arg Ala Xaa  
100

<210> 1266  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 1266  
Lys Ala Val Thr Gly Trp Ala His Trp Leu Thr Pro Ile Ile Pro Ala  
1 5 10 15

Leu Trp Glu Ala Lys Ala Gly Arg Ser Leu Glu Val Arg Ile Ser Arg  
20 25 30

Pro Ala Trp Ser Thr Trp Gln Asn Leu Val Ser Thr Lys Asn Thr Lys  
35 40 45

Ile Arg  
50

<210> 1267  
<211> 120  
<212> PRT  
<213> Homo sapiens

<400> 1267  
Glu Val Leu Phe Ser Asn Asp Ser Val Leu Gly His Phe Pro His Gln  
1 5 10 15

Ser Pro Asn Glu Arg Ala Arg Leu Tyr Phe Leu Leu Ala Trp Phe His  
20 25 30

Ala Ile Ile Gln Glu Arg Leu Arg Tyr Ala Pro Leu Gly Trp Ser Lys  
35 40 45

Lys Tyr Glu Phe Gly Glu Ser Asp Leu Arg Ser Ala Cys Asp Thr Val  
50 55 60

Asp Thr Trp Leu Asp Asp Thr Ala Lys Ala Ser Val Gly His Ala Arg  
65 70 75 80

Thr Asp Ser Gly Arg Val Ser Gly Lys Asp Ala Ala Gly Arg Gly Ala  
85 90 95

Glu Arg Pro Asp Ser Ala Trp Lys Ser Glu Leu Thr Pro Arg Asp Arg  
100 105 110

Gln Ser Leu Ala Gly His Gly Glu  
115 120

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<400> 1268
Met Met Cys Val Val Leu Thr Thr Leu Pro Cys Leu Thr Phe Ser Ile
  1                               10                      15
Ala Val Thr Glu Val Gln Lys Ser Ile Asn Gly Ser Ala Asp Val Leu
                20                      25                      30
Pro Asp Met Leu Pro Asp Leu Pro Val Ser Leu Val Leu Leu Ser Leu
      35                               40                      45
Ile Met Val Asp Ile Ile Glu Lys Leu Arg Ile Tyr Pro Leu Arg Gly
      50                               55                      60
Ser Gln Lys Ser Ser Glu Asn Gly His Ile His Ser Thr Ser Leu Gln
      65                               70                      75                      80
His Ile Lys Thr Val Thr Glu Gln Val Arg Gln Ser Pro Glu Asn Ala
                85                               90                      95
Ala Ser Pro Gln Ala Thr Asn
                100

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<400> 1269
Met Met Cys Val Val Leu Thr Thr Leu Pro Cys Leu Thr Phe Ser Ile
  1              5              10              15
Ala Val Thr Glu Val Gln Lys Ser Ile Asn Gly Ser Ala Asp Val Leu
          20              25              30
Pro Asp Met Leu Pro Asp Leu Pro Val Ser Leu Val Leu Leu Ser Leu
          35              40              45
Ile Met Val Asp Ile Ile Glu Lys Leu Arg Ile Tyr Pro Leu Arg Gly
          50              55              60
Ser Gln Lys Ser Ser Glu Asn Gly His Ile His Ser Thr Ser Leu Gln
          65              70              75              80
His Ile Lys Thr Val Thr Glu Gln Val Arg Gln Ser Pro Glu Asn Ala
          85              90              95
Ala Ser Pro Gln Ala Thr Asn Ser Thr Gln Val Ser Gln Pro Ser Gly
          100              105              110
Ala Met Thr Arg Ser Gln Glu Ser Val Phe Met Gly Pro Gln Glu Pro
          115              120              125
Ser Cys Asp Ser Gly Ile Leu Arg Met Met Ser Arg Arg Asp Val Arg

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130                      135                      140  
 Ala Glu Leu Phe Leu Trp Ser Phe Leu Leu Trp Ser Asp Thr Ile Glu  
 145                      150                      155                      160  
 Met Val Arg Val Ala Gly His Pro Asn Val Tyr Lys Ser Ser Trp Leu  
                     165                      170                      175  
 Tyr Pro Val Tyr Ile Phe Ser Phe Ile Ser Leu Leu Arg Ile Thr Phe  
                     180                      185                      190  
 Thr Pro Gln Asn Pro Leu Leu Asn Ser Leu Ser Val Leu Leu Gln Asp  
                     195                      200                      205  
 Leu Pro Phe Val Phe Val Arg Leu Gly Leu Ile Ile Ala Leu Gly Thr  
                     210                      215                      220  
 Ile Thr Pro Val Leu Gly Leu Cys Lys Asn Ile Leu Val Thr Leu Ser  
 225                      230                      235                      240  
 Tyr Ile Tyr Phe Asn Tyr Leu Thr Arg Ile Arg Ile Phe Ser Ala Phe  
                     245                      250                      255  
 Glu Met Ser Pro Phe  
                     260

<210> 1270  
 <211> 277  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (158)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (277)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1270  
 Met Gly Leu Arg Ser Trp Leu Ala Ala Pro Trp Gly Ala Leu Pro Pro  
   1                    5                    10                    15  
 Arg Pro Pro Leu Leu Leu Leu Leu Leu Leu Leu Leu Leu Gln Pro  
                     20                    25                    30  
 Pro Pro Pro Thr Trp Ala Leu Ser Pro Arg Ile Ser Leu Pro Leu Gly  
                     35                    40                    45  
 Ser Glu Glu Arg Pro Phe Leu Arg Phe Glu Ala Glu His Ile Ser Asn  
                     50                    55                    60  
 Tyr Thr Ala Leu Leu Leu Ser Arg Asp Gly Arg Thr Leu Tyr Val Gly  
                     65                    70                    75                    80  
 Ala Arg Glu Ala Leu Phe Ala Leu Ser Ser Asn Leu Ser Phe Leu Pro

85 90 95  
 Gly Gly Glu Tyr Gln Glu Leu Leu Trp Gly Ala Asp Ala Glu Lys Lys  
 100 105 110  
 Gln Gln Cys Ser Phe Lys Gly Lys Asp Pro Gln Arg Asp Cys Gln Asn  
 115 120 125  
 Tyr Ile Lys Ile Leu Leu Pro Leu Ser Gly Ser His Leu Phe Thr Cys  
 130 135 140  
 Gly Thr Ala Ala Phe Ser Pro Met Cys Thr Tyr Ile Asn Xaa Glu Asn  
 145 150 155 160  
 Phe Thr Leu Ala Arg Asp Glu Lys Gly Asn Val Leu Leu Glu Asp Gly  
 165 170 175  
 Lys Gly Arg Cys Pro Phe Asp Pro Asn Phe Lys Ser Thr Ala Leu Val  
 180 185 190  
 Val Asp Gly Glu Leu Tyr Thr Gly Thr Val Ser Ser Phe Gln Gly Asn  
 195 200 205  
 Asp Pro Ala Ile Ser Arg Ser Gln Ser Leu Arg Pro Thr Lys Thr Glu  
 210 215 220  
 Ser Ser Leu Asn Trp Leu Gln Asp Pro Ala Phe Val Ala Ser Ala Tyr  
 225 230 235 240  
 Ile Pro Glu Ser Leu Gly Ser Leu Gln Gly Asp Asp Asp Lys Ile Tyr  
 245 250 255  
 Phe Phe Phe Ser Glu Thr Gly Gln Glu Phe Glu Phe Phe Glu Asn Thr  
 260 265 270  
 Ile Val Ser Gly Xaa  
 275

<210> 1271  
 <211> 832  
 <212> PRT  
 <213> Homo sapiens

<400> 1271  
 Met Gly Leu Arg Ser Trp Leu Ala Ala Pro Trp Gly Ala Leu Pro Pro  
 1 5 10 15  
 Arg Pro Pro Leu Leu Leu Leu Leu Leu Leu Leu Leu Gln Pro  
 20 25 30  
 Pro Pro Pro Thr Trp Ala Leu Ser Pro Arg Ile Ser Leu Pro Leu Gly  
 35 40 45  
 Ser Glu Glu Arg Pro Phe Leu Arg Phe Glu Ala Glu His Ile Ser Asn  
 50 55 60  
 Tyr Thr Ala Leu Leu Leu Ser Arg Asp Gly Arg Thr Leu Tyr Val Gly  
 65 70 75 80

Ala Arg Glu Ala Leu Phe Ala Leu Ser Ser Asn Leu Ser Phe Leu Pro  
 85 90 95  
 Gly Gly Glu Tyr Gln Glu Leu Leu Trp Gly Ala Asp Ala Glu Lys Lys  
 100 105 110  
 Gln Gln Cys Ser Phe Lys Gly Lys Asp Pro Gln Arg Asp Cys Gln Asn  
 115 120 125  
 Tyr Ile Lys Ile Leu Leu Pro Leu Ser Gly Ser His Leu Phe Thr Cys  
 130 135 140  
 Gly Thr Ala Ala Phe Ser Pro Met Cys Thr Tyr Ile Asn Met Glu Asn  
 145 150 155 160  
 Phe Thr Leu Ala Arg Asp Glu Lys Gly Asn Val Leu Leu Glu Asp Gly  
 165 170 175  
 Lys Gly Arg Cys Pro Phe Asp Pro Asn Phe Lys Ser Thr Ala Leu Val  
 180 185 190  
 Val Asp Gly Glu Leu Tyr Thr Gly Thr Val Ser Ser Phe Gln Gly Asn  
 195 200 205  
 Asp Pro Ala Ile Ser Arg Ser Gln Ser Leu Arg Pro Thr Lys Thr Glu  
 210 215 220  
 Ser Ser Leu Asn Trp Leu Gln Asp Pro Ala Phe Val Ala Ser Ala Tyr  
 225 230 235 240  
 Ile Pro Glu Ser Leu Gly Ser Leu Gln Gly Asp Asp Asp Lys Ile Tyr  
 245 250 255  
 Phe Phe Phe Ser Glu Thr Gly Gln Glu Phe Glu Phe Phe Glu Asn Thr  
 260 265 270  
 Ile Val Ser Arg Ile Ala Arg Ile Cys Lys Gly Asp Glu Gly Gly Glu  
 275 280 285  
 Arg Val Leu Gln Gln Arg Trp Thr Ser Phe Leu Lys Ala Gln Leu Leu  
 290 295 300  
 Cys Ser Arg Pro Asp Asp Gly Phe Pro Phe Asn Val Leu Gln Asp Val  
 305 310 315 320  
 Phe Thr Leu Ser Pro Ser Pro Gln Asp Trp Arg Asp Thr Leu Phe Tyr  
 325 330 335  
 Gly Val Phe Thr Ser Gln Trp His Arg Gly Thr Thr Glu Gly Ser Ala  
 340 345 350  
 Val Cys Val Phe Thr Met Lys Asp Val Gln Arg Val Phe Ser Gly Leu  
 355 360 365  
 Tyr Lys Glu Val Asn Arg Glu Thr Gln Gln Trp Tyr Thr Val Thr His  
 370 375 380  
 Pro Val Pro Thr Pro Arg Pro Gly Ala Cys Ile Thr Asn Ser Ala Arg  
 385 390 395 400

Glu Arg Lys Ile Asn Ser Ser Leu Gln Leu Pro Asp Arg Val Leu Asn  
 405 410 415  
 Phe Leu Lys Asp His Phe Leu Met Asp Gly Gln Val Arg Ser Arg Met  
 420 425 430  
 Leu Leu Leu Gln Pro Gln Ala Arg Tyr Gln Arg Val Ala Val His Arg  
 435 440 445  
 Val Pro Gly Leu His His Thr Tyr Asp Val Leu Phe Leu Gly Thr Gly  
 450 455 460  
 Asp Gly Arg Leu His Lys Ala Val Ser Val Gly Pro Arg Val His Ile  
 465 470 475 480  
 Ile Glu Glu Leu Gln Ile Phe Ser Ser Gly Gln Pro Val Gln Asn Leu  
 485 490 495  
 Leu Leu Asp Thr His Arg Gly Leu Leu Tyr Ala Ala Ser His Ser Gly  
 500 505 510  
 Val Val Gln Val Pro Met Ala Asn Cys Ser Leu Tyr Arg Ser Cys Gly  
 515 520 525  
 Asp Cys Leu Leu Ala Arg Asp Pro Tyr Cys Ala Trp Ser Gly Ser Ser  
 530 535 540  
 Cys Lys His Val Ser Leu Tyr Gln Pro Gln Leu Ala Thr Arg Pro Trp  
 545 550 555 560  
 Ile Gln Asp Ile Glu Gly Ala Ser Ala Lys Asp Leu Cys Ser Ala Ser  
 565 570 575  
 Ser Val Val Ser Pro Ser Phe Val Pro Thr Gly Glu Lys Pro Cys Glu  
 580 585 590  
 Gln Val Gln Phe Gln Pro Asn Thr Val Asn Thr Leu Ala Cys Pro Leu  
 595 600 605  
 Leu Ser Asn Leu Ala Thr Arg Leu Trp Leu Arg Asn Gly Ala Pro Val  
 610 615 620  
 Asn Ala Ser Ala Ser Cys His Val Leu Pro Thr Gly Asp Leu Leu Leu  
 625 630 635 640  
 Val Gly Thr Gln Gln Leu Gly Glu Phe Gln Cys Trp Ser Leu Glu Glu  
 645 650 655  
 Gly Phe Gln Gln Leu Val Ala Ser Tyr Cys Pro Glu Val Val Glu Asp  
 660 665 670  
 Gly Val Ala Asp Gln Thr Asp Glu Gly Gly Ser Val Pro Val Ile Ile  
 675 680 685  
 Ser Thr Ser Arg Val Ser Ala Pro Ala Gly Gly Lys Ala Ser Trp Gly  
 690 695 700  
 Ala Asp Arg Ser Tyr Trp Lys Glu Phe Leu Val Met Cys Thr Leu Phe  
 705 710 715 720

Val Leu Ala Val Leu Leu Pro Val Leu Phe Leu Leu Tyr Arg His Arg  
725 730 735

Asn Ser Met Lys Val Phe Leu Lys Gln Gly Glu Cys Ala Ser Val His  
740 745 750

Pro Lys Thr Cys Pro Val Val Leu Pro Pro Glu Thr Arg Pro Leu Asn  
755 760 765

Gly Leu Gly Pro Pro Ser Thr Pro Leu Asp His Arg Gly Tyr Gln Ser  
770 775 780

Leu Ser Asp Ser Pro Pro Gly Ala Arg Val Phe Thr Glu Ser Glu Lys  
785 790 795 800

Arg Pro Leu Ser Ile Gln Asp Ser Phe Val Glu Val Ser Pro Val Cys  
805 810 815

Pro Arg Pro Arg Val Arg Leu Gly Ser Glu Ile Arg Asp Ser Val Val  
820 825 830

<210> 1272  
<211> 196  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (147)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (156)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (184)



<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1272

Met Gly Lys Trp Lys Glu Ser Leu Gln Asn Ala Xaa His Leu Pro Pro  
1 5 10 15

Ile Leu Leu Leu Arg Xaa Ile His Leu Phe Cys Ala Val Leu Ala Gly  
20 25 30

Gly Lys Glu Asn Gly Gln Met Ala Val Ser Asp Gly Ser Val Lys Gly  
35 40 45

Leu Leu Ser Val Val Arg Xaa Trp Ser Arg Gly Pro Ala Pro Asp Pro  
50 55 60

Cys Leu Val Pro Leu Ala Leu Glu Ala Leu Val Gly Ala Val His Val  
65 70 75 80

Leu His Ala Ser Arg Ala Pro Pro Arg Gly Pro Glu Leu Arg Ala Leu  
85 90 95

Leu Glu Ser Tyr Phe His Val Leu Asn Ala Asp Trp Pro Ala Gly Leu  
100 105 110

Ser Ser Gly Pro Glu Glu Ala Leu Val Thr Leu Arg Val Ser Met Leu  
115 120 125

Asp Ala Ile Pro Met Met Leu His Val Lys Thr Gly Gln Cys Leu Gln  
130 135 140

Pro Pro Xaa Ser Ala Thr Ile Ala Leu Asn Thr Xaa Leu Gly Ser Phe  
145 150 155 160

Lys Asn Lys Gln Gly Ser Trp Thr Lys Thr Gln Thr His Cys Ser Pro  
165 170 175

Cys Ser Gln Ser Ala Asp Leu Xaa His Glu Val Thr Pro Leu Gly Pro  
180 185 190

Arg Arg Trp Leu  
195

<210> 1273

<211> 347

<212> PRT

<213> Homo sapiens

<400> 1273

Met Ser Ser Trp Ser Arg Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln  
1 5 10 15

Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Ala Ala Ser  
20 25 30

Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val Phe Arg Ser  
35 40 45

Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly

50                      55                      60  
 Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val Glu Phe Phe Asn Leu  
 65                      70                      75                      80  
 Thr His Leu Pro Ala Asn Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu  
 85                      90                      95  
 Leu His Leu Ser Ser Asn Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu  
 100                      105                      110  
 Arg Pro Val Pro Gln Leu Arg Val Leu Asp Leu Thr Arg Asn Ala Leu  
 115                      120                      125  
 Thr Gly Leu Pro Ser Gly Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr  
 130                      135                      140  
 Leu Val Leu Lys Glu Asn Gln Leu Glu Val Leu Glu Val Ser Trp Leu  
 145                      150                      155                      160  
 His Gly Leu Lys Ala Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu  
 165                      170                      175  
 Arg Lys Leu Pro Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr  
 180                      185                      190  
 Leu Asp Leu Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu  
 195                      200                      205  
 Arg Gly Pro Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu  
 210                      215                      220  
 Gln Val Leu Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr  
 225                      230                      235                      240  
 Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala Phe  
 245                      250                      255  
 Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn Ser Leu  
 260                      265                      270  
 Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln Pro Asn Trp  
 275                      280                      285  
 Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro Trp Ile Cys Asp  
 290                      295                      300  
 Gln Asn Leu Ser Asp Leu Tyr Arg Trp Leu Gln Ala Gln Lys Asp Lys  
 305                      310                      315                      320  
 Met Phe Ser Gln Asn Asp Thr Arg Cys Ala Gly Pro Glu Ala Val Lys  
 325                      330                      335  
 Gly Gln Thr Leu Leu Ala Val Ala Lys Ser Gln  
 340                      345

&lt;210&gt; 1274

&lt;211&gt; 347

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1274

Met Ser Ser Trp Ser Arg Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln  
 1 5 10 15  
 Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Leu Ala Ala Ser  
 20 25 30  
 Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val Phe Arg Ser  
 35 40 45  
 Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly  
 50 55 60  
 Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val Glu Phe Phe Asn Leu  
 65 70 75 80  
 Thr His Leu Pro Ala Asn Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu  
 85 90 95  
 Leu His Leu Ser Ser Asn Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu  
 100 105 110  
 Arg Pro Val Pro Gln Leu Arg Val Leu Asp Leu Thr Arg Asn Ala Leu  
 115 120 125  
 Thr Gly Leu Pro Ser Gly Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr  
 130 135 140  
 Leu Val Leu Lys Glu Asn Gln Leu Glu Val Leu Glu Val Ser Trp Leu  
 145 150 155 160  
 His Gly Leu Lys Ala Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu  
 165 170 175  
 Arg Lys Leu Pro Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr  
 180 185 190  
 Leu Asp Leu Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu  
 195 200 205  
 Arg Gly Pro Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu  
 210 215 220  
 Gln Val Leu Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr  
 225 230 235 240  
 Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala Phe  
 245 250 255  
 Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn Ser Leu  
 260 265 270  
 Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln Pro Asn Trp  
 275 280 285  
 Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro Trp Ile Cys Asp  
 290 295 300

Gln Asn Leu Ser Asp Leu Tyr Arg Trp Leu Gln Ala Gln Lys Asp Lys  
 305 310 315 320

Met Phe Ser Gln Asn Asp Thr Arg Cys Ala Gly Pro Glu Ala Val Lys  
 325 330 335

Gly Gln Thr Leu Leu Ala Val Ala Lys Ser Gln  
 340 345

<210> 1275

<211> 347

<212> PRT

<213> Homo sapiens

<400> 1275

Met Ser Ser Trp Ser Arg Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln  
 1 5 10 15

Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Leu Ala Ala Ser  
 20 25 30

Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val Phe Arg Ser  
 35 40 45

Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly  
 50 55 60

Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val Glu Phe Phe Asn Leu  
 65 70 75 80

Thr His Leu Pro Ala Asn Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu  
 85 90 95

Leu His Leu Ser Ser Asn Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu  
 100 105 110

Arg Pro Val Pro Gln Leu Arg Val Leu Asp Leu Thr Arg Asn Ala Leu  
 115 120 125

Thr Gly Leu Pro Ser Gly Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr  
 130 135 140

Leu Val Leu Lys Glu Asn Gln Leu Glu Val Leu Glu Val Ser Trp Leu  
 145 150 155 160

His Gly Leu Lys Ala Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu  
 165 170 175

Arg Lys Leu Pro Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr  
 180 185 190

Leu Asp Leu Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu  
 195 200 205

Arg Gly Pro Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu  
 210 215 220

Gln Val Leu Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr  
 225 230 235 240

Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala Phe  
 245 250 255

Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn Ser Leu  
 260 265 270

Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln Pro Asn Trp  
 275 280 285

Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro Trp Ile Cys Asp  
 290 295 300

Gln Asn Leu Ser Asp Leu Tyr Arg Trp Leu Gln Ala Gln Lys Asp Lys  
 305 310 315 320

Met Phe Ser Gln Asn Asp Thr Arg Cys Ala Gly Pro Glu Ala Val Lys  
 325 330 335

Gly Gln Thr Leu Leu Ala Val Ala Lys Ser Gln  
 340 345

<210> 1276

<211> 286

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1276

Met Leu Met Leu Met Leu Leu Met Met Phe Ala Val His Cys Thr Trp  
 1 5 10 15

Val Thr Ser Asn Ala Tyr Ser Ser Pro Ser Val Val Leu Ala Ser Tyr  
 20 25 30

Asn His Asp Gly Thr Arg Asn Ile Leu Asp Asp Phe Arg Glu Ala Tyr  
 35 40 45

Phe Trp Leu Arg Gln Asn Thr Asp Glu His Ala Arg Val Met Ser Trp  
 50 55 60

Trp Asp Tyr Gly Tyr Gln Ile Ala Gly Met Ala Asn Arg Thr Thr Leu  
 65 70 75 80

Val Asp Asn Asn Thr Trp Asn Asn Ser His Ile Ala Leu Val Gly Lys  
 85 90 95

Ala Met Ser Ser Asn Glu Thr Ala Ala Tyr Lys Ile Met Arg Thr Leu  
 100 105 110

Asp Val Asp Tyr Val Leu Val Ile Phe Gly Gly Val Ile Gly Tyr Ser  
 115 120 125

Gly Asp Asp Ile Asn Lys Phe Leu Trp Met Val Arg Ile Ala Glu Gly  
130 135 140

Glu His Pro Lys Asp Ile Arg Glu Ser Asp Tyr Phe Thr Pro Gln Gly  
145 150 155 160

Glu Phe Arg Val Asp Lys Ala Gly Ser Pro Thr Leu Xaa Asn Cys Leu  
165 170 175

Met Tyr Lys Met Ser Tyr Tyr Arg Phe Gly Glu Met Gln Leu Asp Phe  
180 185 190

Arg Thr Pro Pro Gly Phe Asp Arg Thr Arg Asn Ala Glu Ile Gly Asn  
195 200 205

Lys Asp Ile Lys Phe Lys His Leu Glu Glu Ala Phe Thr Ser Glu His  
210 215 220

Trp Leu Val Arg Ile Tyr Lys Val Lys Ala Pro Asp Asn Arg Glu Thr  
225 230 235 240

Leu Asp His Lys Pro Arg Val Thr Asn Ile Phe Pro Lys Gln Lys Tyr  
245 250 255

Leu Ser Lys Lys Thr Thr Lys Arg Lys Arg Gly Tyr Ile Lys Asn Lys  
260 265 270

Leu Val Phe Lys Lys Gly Lys Lys Ile Ser Lys Lys Thr Val  
275 280 285

<210> 1277

<211> 286

<212> PRT

<213> Homo sapiens

<400> 1277

Met Leu Met Leu Met Leu Leu Met Met Phe Ala Val His Cys Thr Trp  
1 5 10 15

Val Thr Ser Asn Ala Tyr Ser Ser Pro Ser Val Val Leu Ala Ser Tyr  
20 25 30

Asn His Asp Gly Thr Arg Asn Ile Leu Asp Asp Phe Arg Glu Ala Tyr  
35 40 45

Phe Trp Leu Arg Gln Asn Thr Asp Glu His Ala Arg Val Met Ser Trp  
50 55 60

Trp Asp Tyr Gly Tyr Gln Ile Ala Gly Met Ala Asn Arg Thr Thr Leu  
65 70 75 80

Val Asp Asn Asn Thr Trp Asn Asn Ser His Ile Ala Leu Val Gly Lys  
85 90 95

Ala Met Ser Ser Asn Glu Thr Ala Ala Tyr Lys Ile Met Arg Thr Leu  
100 105 110

Asp Val Asp Tyr Val Leu Val Ile Phe Gly Gly Val Ile Gly Tyr Ser  
115 120 125

Gly Asp Asp Ile Asn Lys Phe Leu Trp Met Val Arg Ile Ala Glu Gly  
130 135 140

Glu His Pro Lys Asp Ile Arg Glu Ser Asp Tyr Phe Thr Pro Gln Gly  
145 150 155 160

Glu Phe Arg Val Asp Lys Ala Gly Ser Pro Thr Leu Leu Asn Cys Leu  
165 170 175

Met Tyr Lys Met Ser Tyr Tyr Arg Phe Gly Glu Met Gln Leu Asp Phe  
180 185 190

Arg Thr Pro Pro Gly Phe Asp Arg Thr Arg Asn Ala Glu Ile Gly Asn  
195 200 205

Lys Asp Ile Lys Phe Lys His Leu Glu Glu Ala Phe Thr Ser Glu His  
210 215 220

Trp Leu Val Arg Ile Tyr Lys Val Lys Ala Pro Asp Asn Arg Glu Thr  
225 230 235 240

Leu Asp His Lys Pro Arg Val Thr Asn Ile Phe Pro Lys Gln Lys Tyr  
245 250 255

Leu Ser Lys Lys Thr Thr Lys Arg Lys Arg Gly Tyr Ile Lys Asn Lys  
260 265 270

Leu Val Phe Lys Lys Gly Lys Lys Ile Ser Lys Lys Thr Val  
275 280 285

<210> 1278

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1278

Met Ser Ala Leu Arg Pro Leu Leu Leu Leu Leu Pro Leu Cys Pro  
1 5 10 15

Gly Pro Gly Pro Gly Pro Gly Ser Glu Ala Lys Val Thr Arg Ser Cys  
20 25 30

Ala Glu Thr Arg Gln Val Leu Gly Ala Arg Gly Tyr Ser Leu Asn Leu  
35 40 45

Ile Pro Pro Ala Leu Ile Ser Gly Glu His Leu Arg Val Cys Pro Gln  
50 55 60

Glu Tyr Thr Cys Cys Ser Ser Glu Thr Glu Gln Arg Leu Ile Arg Glu  
65 70 75 80

Thr Glu Ala Thr Phe Arg Gly Leu Val Glu Asp Ser Gly Ser Phe Leu  
                                   85                                  90                                  95

Val His Thr Leu Ala Ala Arg His Arg Lys Phe Asp Asp Asn Pro Asp  
                                   100                                  105                                  110

Pro Gly Gly Cys Pro Ser Leu Leu Cys Lys Ala Trp Arg Leu Glu Glu  
                                   115                                  120                                  125

Met Trp Ser Ser Glu Xaa Ala  
                                   130                                  135

<210> 1279  
 <211> 134  
 <212> PRT  
 <213> Homo sapiens

<400> 1279  
 Met Ser Ala Leu Arg Pro Leu Leu Leu Leu Leu Pro Leu Cys Pro  
   1                                  5                                  10                                  15

Gly Pro Gly Pro Gly Pro Gly Ser Glu Ala Lys Val Thr Arg Ser Cys  
                                   20                                  25                                  30

Ala Glu Thr Arg Gln Val Leu Gly Ala Arg Gly Tyr Ser Leu Asn Leu  
                                   35                                  40                                  45

Ile Pro Pro Ala Leu Ile Ser Gly Glu His Leu Arg Val Cys Pro Gln  
                                   50                                  55                                  60

Glu Tyr Thr Cys Cys Ser Ser Glu Thr Glu Gln Arg Leu Ile Arg Glu  
                                   65                                  70                                  75                                  80

Thr Glu Ala Thr Phe Arg Gly Leu Val Glu Asp Ser Gly Ser Phe Leu  
                                   85                                  90                                  95

Val His Thr Leu Ala Ala Arg His Arg Lys Phe Asp Asp Asn Pro Asp  
                                   100                                  105                                  110

Pro Gly Gly Cys Pro Ser Leu Cys Ala Gly Pro Gly Asp Trp Lys Lys  
                                   115                                  120                                  125

Cys Gly Gln Arg Cys Ala  
                                   130

<210> 1280  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids.



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1280

Cys Ala Leu Xaa Phe Glu Phe Phe Phe Phe Phe Phe Leu Arg Trp  
 1 5 10 15

Ser Leu Gly Asn Lys Ala Arg Leu Xaa Gln Lys Lys Lys Lys Lys  
 20 25 30

Lys Thr Ser Val Gly Lys Asn Met Glu Asn Trp Asn Pro Asp Thr Leu  
 35 40 45

Leu Val Gly Leu  
 50

&lt;210&gt; 1281

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1281

Met Arg Val Val Ser Gly Thr Leu Phe Ile His Phe Leu Val Leu Ile  
 1 5 10 15

Phe

&lt;210&gt; 1282

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1282

Met Arg Val Val Ser Gly Thr Leu Phe Ile His Phe Leu Val Leu Ile  
 1 5 10 15

Phe

&lt;210&gt; 1283

&lt;211&gt; 182

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1283

Met Ala Lys Arg Ser Arg Gly Pro Gly Arg Arg Cys Leu Leu Ala Leu  
 1 5 10 15

Val Leu Phe Cys Ala Trp Gly Thr Leu Ala Val Val Ala Gln Lys Pro  
 20 25 30

Gly Ala Gly Cys Pro Ser Arg Cys Leu Cys Phe Arg Thr Thr Val Arg  
35 40 45

Cys Met His Leu Leu Leu Glu Ala Val Pro Ala Val Ala Pro Gln Thr  
50 55 60

Ser Ile Leu Asp Leu Arg Phe Asn Arg Ile Arg Glu Ile Gln Pro Gly  
65 70 75 80

Ala Phe Arg Arg Leu Arg Asn Leu Asn Thr Leu Leu Leu Asn Asn Asn  
85 90 95

Gln Ile Lys Arg Ile Pro Ser Gly Ala Phe Glu Asp Leu Glu Asn Leu  
100 105 110

Lys Tyr Leu Tyr Leu His Phe Asn Gln Ile Glu Thr Leu Asp Pro Asp  
115 120 125

Ser Phe Gln His Leu Pro Lys Leu Glu Arg Leu Phe Leu His Asn Asn  
130 135 140

Arg Ile Thr His Leu Val Pro Gly Thr Phe Asn His Leu Glu Ser Met  
145 150 155 160

Lys Arg Leu Arg Leu Asp Ser Asn Thr Leu His Cys Asp Cys Glu Ile  
165 170 175

Leu Trp Leu Arg Ile Cys  
180

<210> 1284

<211> 550

<212> PRT

<213> Homo sapiens

<400> 1284

Ala Leu Pro Gln Gln Ala Ala Val Ala Gly Ile Val Gln Arg Ser Gly  
1 5 10 15

Lys Pro Leu Leu Pro Phe Ala Thr Gly Pro Pro Thr Glu Cys Met Arg  
20 25 30

Asp Glu Asn Glu Ser Pro Ile Pro Cys Phe Leu Ala Gly Asp His Arg  
35 40 45

Ala Asn Glu Gln Leu Gly Leu Thr Ser Met His Thr Leu Trp Phe Arg  
50 55 60

Glu His Asn Arg Ile Ala Thr Glu Leu Leu Lys Leu Asn Pro His Trp  
65 70 75 80

Asp Gly Asp Thr Ile Tyr Tyr Glu Thr Arg Lys Ile Val Gly Ala Glu  
85 90 95

Ile Gln His Ile Thr Tyr Gln His Trp Leu Pro Lys Ile Leu Gly Glu  
100 105 110

Val Gly Met Arg Thr Leu Gly Glu Tyr His Gly Tyr Asp Pro Gly Ile

115 120 125  
 Asn Ala Gly Ile Phe Asn Ala Phe Ala Thr Ala Ala Phe Arg Phe Gly  
 130 135 140  
 His Thr Leu Val Asn Pro Leu Leu Tyr Arg Leu Asp Glu Asn Phe Gln  
 145 150 155 160  
 Pro Ile Ala Gln Asp His Leu Pro Leu His Lys Ala Phe Phe Ser Pro  
 165 170 175  
 Phe Arg Ile Val Asn Glu Gly Gly Ile Asp Pro Leu Leu Arg Gly Leu  
 180 185 190  
 Phe Gly Val Ala Gly Lys Met Arg Val Pro Ser Gln Leu Leu Asn Thr  
 195 200 205  
 Glu Leu Thr Glu Arg Leu Phe Ser Met Ala His Thr Val Ala Leu Asp  
 210 215 220  
 Leu Ala Ala Ile Asn Ile Gln Arg Gly Arg Asp His Gly Ile Pro Pro  
 225 230 235 240  
 Tyr His Asp Tyr Arg Val Tyr Cys Asn Leu Ser Ala Ala His Thr Phe  
 245 250 255  
 Glu Asp Leu Lys Asn Glu Ile Lys Asn Pro Glu Ile Arg Glu Lys Leu  
 260 265 270  
 Lys Arg Leu Tyr Gly Ser Thr Leu Asn Ile Asp Leu Phe Pro Ala Leu  
 275 280 285  
 Val Val Glu Asp Leu Val Pro Gly Ser Arg Leu Gly Pro Thr Leu Met  
 290 295 300  
 Cys Leu Leu Ser Thr Gln Phe Lys Arg Leu Arg Asp Gly Asp Arg Leu  
 305 310 315 320  
 Trp Tyr Glu Asn Pro Gly Val Phe Ser Pro Ala Gln Leu Thr Gln Ile  
 325 330 335  
 Lys Gln Thr Ser Leu Ala Arg Ile Leu Cys Asp Asn Ala Asp Asn Ile  
 340 345 350  
 Thr Arg Val Gln Ser Asp Val Phe Arg Val Ala Glu Phe Pro His Gly  
 355 360 365  
 Tyr Gly Ser Cys Asp Glu Ile Pro Arg Val Asp Leu Arg Val Trp Gln  
 370 375 380  
 Asp Cys Cys Glu Asp Cys Arg Thr Arg Gly Gln Phe Asn Ala Phe Ser  
 385 390 395 400  
 Tyr His Phe Arg Gly Arg Arg Ser Leu Glu Phe Ser Tyr Gln Glu Asp  
 405 410 415  
 Lys Pro Thr Lys Lys Thr Arg Pro Arg Lys Ile Pro Ser Val Gly Arg  
 420 425 430  
 Gln Gly Glu His Leu Ser Asn Ser Thr Ser Ala Phe Ser Thr Arg Ser  
 743

435                      440                      445  
 Asp Ala Ser Gly Thr Asn Asp Phe Arg Glu Phe Val Leu Glu Met Gln  
 450                      455                      460  
 Lys Thr Ile Thr Asp Leu Arg Thr Gln Ile Lys Lys Leu Glu Ser Arg  
 465                      470                      475                      480  
 Leu Ser Thr Thr Glu Cys Val Asp Ala Gly Gly Glu Ser His Ala Asn  
 485                      490                      495  
 Asn Thr Lys Trp Lys Lys Asp Ala Cys Thr Ile Cys Glu Cys Lys Asp  
 500                      505                      510  
 Gly Gln Val Thr Cys Phe Val Glu Ala Cys Pro Pro Ala Thr Cys Ala  
 515                      520                      525  
 Val Pro Val Asn Ile Pro Gly Ala Cys Cys Pro Val Cys Leu Gln Lys  
 530                      535                      540  
 Arg Ala Glu Glu Lys Pro  
 545                      550

&lt;210&gt; 1285

&lt;211&gt; 210

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (139)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (187)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1285

Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly  
 1                      5                      10                      15

Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly  
 20                      25                      30

Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro  
 35                      40                      45

Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val  
 50                      55                      60

Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys  
 65                      70                      75                      80

Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys  
 85                      90                      95

Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His

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<210> 1286
<211> 173
<212> PRT
<213> Homo sapiens
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<400> 1286

Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly  
1 5 10 15

Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly  
20 25 30

Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro  
35 40 45

Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val  
50 55 60

Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys  
65 70 75 80

Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys  
85 90 95

Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His  
100 105 110

His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro  
115 120 125

Val Pro Glu Ala His Ser Pro Gly Phe Asp Gly Ala Ser Phe Ile Gly  
130 135 140

Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu  
145 150 155 160

His Phe Leu Lys Ala Lys Asp Ser Thr Tyr Gln Thr Leu  
 165 170

&lt;210&gt; 1287

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1287

Met Thr Trp Lys Ile Lys Leu Arg Ser Ala Val Tyr Leu Ser Asp Ala  
 1 5 10 15

Thr Val Thr Thr Leu Gly Asn Leu Val Pro Phe Thr Leu Thr Leu Leu  
 20 25 30

Cys Phe Leu Leu Leu Ile Cys Ser Leu Cys Lys His Leu Lys Lys Met  
 35 40 45

Gln Leu His Gly Lys Gly Ser Gln Asp Pro Ser Thr Lys Val His Ile  
 50 55 60

Lys Val Leu Gln Thr Val Ile Phe Phe Leu Leu Leu Cys Ala Ile Tyr  
 65 70 75 80

Phe Leu Ser Ile Met Ile Ser-Val Trp Ser Phe Gly Ser Leu Glu Asn  
 85 90 95

Lys Pro Val Phe Met Phe Cys Lys Ala Ile Arg Phe Ser Tyr Pro Ser  
 100 105 110

Ile His Pro Phe Ile Leu Ile Trp Gly Asn Lys Lys Leu Lys Gln Thr  
 115 120 125

Phe Leu Ser Val Leu Arg Gln Val Arg Tyr Trp Val Lys Gly Glu Lys  
 130 135 140

Pro Ser Ser Pro  
 145

&lt;210&gt; 1288

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1288

Asn Glu Arg Val Leu Thr Tyr Ser Leu Ile Gly Ser Ser Ile Ile Arg  
 1 5 10 15

Lys Lys Cys Thr Val Leu Phe Thr Ala Lys Phe Tyr Leu Thr Val Leu  
 20 25 30

Ile Leu Gly Val Met Lys Phe Lys Gln Cys Asp Leu Asn Leu Lys Lys  
 35 40 45

Lys Lys Lys Lys Gly Arg Pro

50

55

<210> 1289  
 <211> 273  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (200)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1289  
 Met Arg Leu Pro Gly Val Pro Leu Ala Arg Pro Ala Leu Leu Leu Leu  
 1 5 10 15  
 Leu Pro Leu Leu Ala Pro Leu Leu Gly Thr Gly Ala Pro Ala Glu Leu  
 20 25 30  
 Arg Val Arg Val Arg Leu Pro Asp Gly Gln Val Thr Glu Glu Ser Leu  
 35 40 45  
 Gln Ala Asp Ser Asp Ala Asp Ser Ile Ser Leu Glu Leu Arg Lys Pro  
 50 55 60  
 Asp Gly Thr Leu Val Ser Phe Thr Ala Asp Phe Lys Lys Asp Val Lys  
 65 70 75 80  
 Val Phe Arg Ala Leu Ile Leu Gly Glu Leu Glu Lys Gly Gln Ser Gln  
 85 90 95  
 Phe Gln Ala Leu Cys Phe Val Thr Gln Leu Gln His Asn Glu Ile Ile  
 100 105 110  
 Pro Ser Glu Ala Met Ala Lys Leu Arg Gln Lys Asn Pro Arg Ala Val  
 115 120 125  
 Arg Gln Ala Glu Glu Val Arg Gly Leu Glu His Leu His Met Asp Val  
 130 135 140  
 Ala Val Asn Phe Ser Gln Gly Ala Leu Leu Ser Pro His Leu His Asn  
 145 150 155 160  
 Val Cys Ala Glu Ala Val Asp Ala Ile Tyr Thr Arg Gln Glu Asp Val  
 165 170 175  
 Arg Phe Trp Leu Glu Gln Gly Val Asp Ser Ser Val Phe Glu Ala Leu  
 180 185 190  
 Pro Lys Ala Ser Glu Gln Ala Xaa Leu Pro Arg Cys Arg Gln Val Gly  
 195 200 205  
 Asp Arg Gly Lys Pro Cys Val Cys His Tyr Gly Leu Ser Leu Ala Trp  
 210 215 220  
 Tyr Pro Cys Met Leu Lys Tyr Cys His Ser Arg Asp Arg Pro Thr Pro  
 225 230 235 240

Tyr Lys Cys Gly Ile Arg Ser Cys Gln Lys Ser Tyr Ser Phe Asp Phe  
 245 250 255

Tyr Val Pro Gln Arg Gln Leu Cys Leu Trp Asp Glu Asp Pro Tyr Pro  
 260 265 270

Gly

<210> 1290

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1290

Met Arg Leu Pro Gly Val Pro Leu Ala Arg Pro Ala Leu Leu Leu Leu  
 1 5 10 15

Leu Pro Leu Leu Ala Pro Leu Leu Gly Thr Gly Ala Pro Ala Glu Leu  
 20 25 30

Arg Val Arg Val Arg Leu Pro Asp Gly Gln Val Thr Glu Glu Ser Leu  
 35 40 45

Gln Ala Asp Ser Asp Ala Asp Ser Ile Ser Leu Glu Leu Arg Lys Pro  
 50 55 60

Asp Gly Thr Leu Val Ser Phe Thr Ala Asp Phe Lys Lys Asp Val Lys  
 65 70 75 80

Val Phe Arg Ala Leu Ile Leu Gly Glu Leu Glu Lys Gly Gln Ser Gln  
 85 90 95

Phe Gln Ala Leu Cys Phe Val Thr Gln Leu Gln His Asn Glu Ile Ile  
 100 105 110

Pro Ser Glu Ala Met Ala Lys Leu Arg Gln Lys Asn Pro Arg Ala Val  
 115 120 125

Arg Gln Ala Glu Glu Val Arg Gly Leu Glu His Leu His Met Asp Val  
 130 135 140

Ala Val Asn Phe Ser Gln Gly Ala Leu Leu Ser Pro His Leu His Asn  
 145 150 155 160

Val Cys Ala Glu Ala Val Asp Ala Ile Tyr Thr Arg Gln Glu Asp Val  
 165 170 175

Arg Phe Trp Leu Glu Gln Gly Val Asp Ser Ser Val Phe Glu Ala Leu  
 180 185 190

Pro Lys Ala Ser Glu Gln Ala Glu Leu Pro Arg Cys Arg Gln Val Gly  
 195 200 205



Asp Arg Gly Lys Pro Cys Val Cys Xaa Tyr Gly Leu Ser Leu Ala Trp  
 210 215 220  
 Tyr Pro Cys Met Leu Lys Tyr Cys His Ser Arg Asp Arg Pro Thr Pro  
 225 230 235 240  
 Tyr Lys Cys Gly Ile Arg Ser Cys Gln Lys Ser Tyr Ser Phe Asp Phe  
 245 250 255  
 Tyr Val Pro Gln Arg Gln Leu Cys Leu Trp Asp Glu Asp Pro Tyr Pro  
 260 265 270

Gly

<210> 1291  
 <211> 934  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (225)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (596)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (852)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1291  
 Met Leu Ala Gly Cys Phe Leu Leu Ile Leu Gly Gln Ile Val Leu Leu  
 1 5 10 15

Pro Ala Glu Ala Arg Glu Arg Ser Arg Gly Arg Ser Ile Ser Arg Gly  
 20 25 30

Arg His Ala Arg Thr His Pro Gln Thr Ala Leu Leu Glu Ser Ser Cys  
 35 40 45

Glu Asn Lys Arg Ala Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser  
 50 55 60

Val Asn Thr His Asp Tyr Ala Lys Val Lys Glu Phe Ile Val Asp Ile  
 65 70 75 80

Leu Gln Phe Leu Asp Ile Gly Pro Asp Val Thr Arg Val Gly Leu Leu  
 85 90 95

Gln Tyr Gly Ser Thr Val Lys Asn Glu Phe Ser Leu Lys Thr Phe Lys  
 100 105 110

Arg Lys Ser Glu Val Glu Arg Ala Val Lys Arg Met Arg His Leu Ser  
 115 120 125  
 Thr Gly Thr Met Thr Gly Leu Ala Ile Gln Tyr Ala Leu Asn Ile Ala  
 130 135 140  
 Phe Ser Glu Ala Glu Gly Ala Arg Pro Leu Arg Glu Asn Val Pro Arg  
 145 150 155 160  
 Val Ile Met Ile Val Thr Asp Gly Arg Pro Gln Asp Ser Val Ala Glu  
 165 170 175  
 Val Ala Ala Lys Ala Arg Asp Thr Gly Ile Leu Ile Phe Ala Ile Gly  
 180 185 190  
 Val Gly Gln Val Asp Phe Asn Thr Leu Lys Ser Ile Gly Ser Glu Pro  
 195 200 205  
 His Glu Asp His Val Phe Leu Val Ala Asn Phe Ser Gln Ile Glu Thr  
 210 215 220  
 Xaa Thr Ser Val Phe Gln Lys Lys Leu Cys Thr Ala His Met Cys Ser  
 225 230 235 240  
 Thr Leu Glu His Asn Cys Ala His Phe Cys Ile Asn Ile Pro Gly Ser  
 245 250 255  
 Tyr Val Cys Arg Cys Lys Gln Gly Tyr Ile Leu Asn Ser Asp Gln Thr  
 260 265 270  
 Thr Cys Arg Ile Gln Asp Leu Cys Ala Met Glu Asp His Asn Cys Glu  
 275 280 285  
 Gln Leu Cys Val Asn Val Pro Gly Ser Phe Val Cys Gln Cys Tyr Ser  
 290 295 300  
 Gly Tyr Ala Leu Ala Glu Asp Gly Lys Arg Cys Val Ala Val Asp Tyr  
 305 310 315 320  
 Cys Ala Ser Glu Asn His Gly Cys Glu His Glu Cys Val Asn Ala Asp  
 325 330 335  
 Gly Ser Tyr Leu Cys Gln Cys His Glu Gly Phe Ala Leu Asn Pro Asp  
 340 345 350  
 Glu Lys Thr Cys Thr Lys Ile Asp Tyr Cys Ala Ser Ser Asn His Gly  
 355 360 365  
 Cys Gln His Glu Cys Val Asn Thr Asp Asp Ser Tyr Ser Cys His Cys  
 370 375 380  
 Leu Lys Gly Phe Thr Leu Asn Pro Asp Lys Lys Thr Cys Arg Arg Ile  
 385 390 395 400  
 Asn Tyr Cys Ala Leu Asn Lys Pro Gly Cys Glu His Glu Cys Val Asn  
 405 410 415  
 Met Glu Glu Ser Tyr Tyr Cys Arg Cys His Arg Gly Tyr Thr Leu Asp  
 420 425 430

Pro Asn Gly Lys Thr Cys Ser Arg Val Asp His Cys Ala Gln Gln Asp  
 435 440 445  
 His Gly Cys Glu Gln Leu Cys Leu Asn Thr Glu Asp Ser Phe Val Cys  
 450 455 460  
 Gln Cys Ser Glu Gly Phe Leu Ile Asn Glu Asp Leu Lys Thr Cys Ser  
 465 470 475 480  
 Arg Val Asp Tyr Cys Leu Leu Ser Asp His Gly Cys Glu Tyr Ser Cys  
 485 490 495  
 Val Asn Met Asp Arg Ser Phe Ala Cys Gln Cys Pro Glu Gly His Val  
 500 505 510  
 Leu Arg Ser Asp Gly Lys Thr Cys Ala Lys Leu Asp Ser Cys Ala Leu  
 515 520 525  
 Gly Asp His Gly Cys Glu His Ser Cys Val Ser Ser Glu Asp Ser Phe  
 530 535 540  
 Val Cys Gln Cys Phe Glu Gly Tyr Ile Leu Arg Glu Asp Gly Lys Thr  
 545 550 555 560  
 Cys Arg Arg Lys Asp Val Cys Gln Ala Ile Asp His Gly Cys Glu His  
 565 570 575  
 Ile Cys Val Asn Ser Asp Asp Ser Tyr Thr Cys Glu Cys Leu Glu Gly  
 580 585 590  
 Phe Arg Leu Xaa Glu Asp Gly Lys Arg Cys Arg Arg Lys Asp Val Cys  
 595 600 605  
 Lys Ser Thr His His Gly Cys Glu His Ile Cys Val Asn Asn Gly Asn  
 610 615 620  
 Ser Tyr Ile Cys Lys Cys Ser Glu Gly Phe Val Leu Ala Glu Asp Gly  
 625 630 635 640  
 Arg Arg Cys Lys Lys Cys Thr Glu Gly Pro Ile Asp Leu Val Phe Val  
 645 650 655  
 Ile Asp Gly Ser Lys Ser Leu Gly Glu Glu Asn Phe Glu Val Val Lys  
 660 665 670  
 Gln Phe Val Thr Gly Ile Ile Asp Ser Leu Thr Ile Ser Pro Lys Ala  
 675 680 685  
 Ala Arg Val Gly Leu Leu Gln Tyr Ser Thr Gln Val His Thr Glu Phe  
 690 695 700  
 Thr Leu Arg Asn Phe Asn Ser Ala Lys Asp Met Lys Lys Ala Val Ala  
 705 710 715 720  
 His Met Lys Tyr Met Gly Lys Gly Ser Met Thr Gly Leu Ala Leu Lys  
 725 730 735  
 His Met Phe Glu Arg Ser Phe Thr Gln Gly Glu Gly Ala Arg Pro Leu  
 740 745 750

Ser Thr Arg Val Pro Arg Ala Ala Ile Val Phe Thr Asp Gly Arg Ala  
755 760 765

Gln Asp Asp Val Ser Glu Trp Ala Ser Lys Ala Lys Ala Asn Gly Ile  
770 775 780

Thr Met Tyr Ala Val Gly Val Gly Lys Ala Ile Glu Glu Glu Leu Gln  
785 790 795 800

Glu Ile Ala Ser Glu Pro Thr Asn Lys His Leu Phe Tyr Ala Glu Asp  
805 810 815

Phe Ser Thr Met Asp Glu Ile Ser Glu Lys Leu Lys Lys Gly Ile Cys  
820 825 830

Glu Ala Leu Glu Asp Ser Asp Gly Arg Gln Asp Ser Pro Ala Gly Glu  
835 840 845

Leu Pro Lys Xaa Val Gln Gln Pro Thr Val Gln His Arg Tyr Leu Phe  
850 855 860

Glu Glu Asp Asn Leu Leu Arg Ser Thr Gln Lys Leu Ser His Ser Thr  
865 870 875 880

Lys Pro Ser Gly Ser Pro Leu Glu Glu Lys His Asp Gln Cys Lys Cys  
885 890 895

Glu Asn Leu Ile Met Phe Gln Asn Leu Ala Asn Glu Glu Val Arg Lys  
900 905 910

Leu Thr Gln Arg Leu Glu Glu Met Thr Gln Arg Met Glu Ala Leu Glu  
915 920 925

Asn Arg Leu Arg Tyr Arg  
930

<210> 1292

<211> 794

<212> PRT

<213> Homo sapiens

<400> 1292

Met Leu Ala Gly Cys Phe Leu Leu Ile Leu Gly Gln Ile Val Leu Leu  
1 5 10 15

Pro Ala Glu Ala Arg Glu Arg Ser Arg Gly Arg Ser Ile Ser Arg Gly  
20 25 30

Arg His Ala Arg Thr His Pro Gln Thr Ala Leu Leu Glu Ser Ser Cys  
35 40 45

Glu Asn Lys Arg Ala Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser  
50 55 60

Val Asn Thr His Asp Tyr Ala Lys Val Lys Glu Phe Ile Val Asp Ile  
65 70 75 80

Leu Gln Phe Leu Asp Ile Gly Pro Asp Val Thr Arg Val Gly Leu Leu  
752

85 90 95  
 Gln Tyr Gly Ser Thr Val Lys Asn Glu Phe Ser Leu Lys Thr Phe Lys  
 100 105 110  
 Arg Lys Ser Glu Val Glu Arg Ala Val Lys Arg Met Arg His Leu Ser  
 115 120 125  
 Thr Gly Thr Met Thr Gly Leu Ala Ile Gln Tyr Ala Leu Asn Ile Ala  
 130 135 140  
 Phe Ser Glu Ala Glu Gly Ala Arg Pro Leu Arg Glu Asn Val Pro Arg  
 145 150 155 160  
 Val Ile Met Ile Val Thr Asp Gly Arg Pro Gln Asp Ser Val Ala Glu  
 165 170 175  
 Val Ala Ala Lys Ala Arg Asp Thr Gly Ile Leu Ile Phe Ala Ile Gly  
 180 185 190  
 Val Gly Gln Val Asp Phe Asn Thr Leu Lys Ser Ile Gly Ser Glu Pro  
 195 200 205  
 His Glu Asp His Val Phe Leu Val Ala Asn Phe Ser Gln Ile Glu Thr  
 210 215 220  
 Leu Thr Ser Val Phe Gln Lys Lys Leu Cys Thr Ala His Met Cys Ser  
 225 230 235 240  
 Thr Leu Glu His Asn Cys Ala His Phe Cys Ile Asn Ile Pro Gly Ser  
 245 250 255  
 Tyr Val Cys Arg Cys Lys Gln Gly Tyr Ile Leu Asn Ser Asp Gln Thr  
 260 265 270  
 Thr Cys Arg Ile Gln Asp Leu Cys Ala Met Glu Asp His Asn Cys Glu  
 275 280 285  
 Gln Leu Cys Val Asn Val Pro Gly Ser Phe Val Cys Gln Cys Tyr Ser  
 290 295 300  
 Gly Tyr Ala Leu Ala Glu Asp Gly Lys Arg Cys Val Ala Val Asp Tyr  
 305 310 315 320  
 Cys Ala Ser Glu Asn His Gly Cys Glu His Glu Cys Val Asn Ala Asp  
 325 330 335  
 Gly Ser Tyr Leu Cys Gln Cys His Glu Gly Phe Ala Leu Asn Pro Asp  
 340 345 350  
 Glu Lys Thr Cys Thr Lys Ile Asp Tyr Cys Ala Ser Ser Asn His Gly  
 355 360 365  
 Cys Gln His Glu Cys Val Asn Thr Asp Asp Ser Tyr Ser Cys His Cys  
 370 375 380  
 Leu Lys Gly Phe Thr Leu Asn Pro Asp Lys Lys Thr Cys Arg Arg Ile  
 385 390 395 400  
 Asn Tyr Cys Ala Leu Asn Lys Pro Gly Cys Glu His Glu Cys Val Asn

405                      410                      415  
 Met Glu Glu Ser Tyr Tyr Cys Arg Cys His Arg Gly Tyr Thr Leu Asp  
                          420                      425                      430  
 Pro Asn Gly Lys Thr Cys Ser Arg Val Asp His Cys Ala Gln Gln Asp  
                          435                      440                      445  
 His Gly Cys Glu Gln Leu Cys Leu Asn Thr Glu Asp Ser Phe Val Cys  
                          450                      455                      460  
 Gln Cys Ser Glu Gly Phe Leu Ile Asn Glu Asp Leu Lys Thr Cys Ser  
                          465                      470                      475                      480  
 Arg Val Asp Tyr Cys Leu Leu Ser Asp His Gly Cys Glu Tyr Ser Cys  
                          485                      490                      495  
 Val Asn Met Asp Arg Ser Phe Ala Cys Gln Cys Pro Glu Gly His Val  
                          500                      505                      510  
 Leu Arg Ser Asp Gly Lys Thr Cys Ala Lys Leu Asp Ser Cys Ala Leu  
                          515                      520                      525  
 Gly Asp His Gly Cys Glu His Ser Cys Val Ser Ser Glu Asp Ser Phe  
                          530                      535                      540  
 Val Cys Gln Cys Phe Glu Gly Tyr Ile Leu Arg Glu Asp Gly Lys Thr  
                          545                      550                      555                      560  
 Cys Arg Arg Lys Asp Val Cys Gln Ala Ile Asp His Gly Cys Glu His  
                          565                      570                      575  
 Ile Cys Val Asn Ser Asp Asp Ser Tyr Thr Cys Glu Cys Leu Glu Gly  
                          580                      585                      590  
 Phe Arg Leu Ala Glu Asp Gly Lys Arg Cys Arg Arg Lys Asp Val Cys  
                          595                      600                      605  
 Lys Ser Thr His His Gly Cys Glu His Ile Cys Val Asn Asn Gly Asn  
                          610                      615                      620  
 Ser Tyr Ile Cys Lys Cys Ser Glu Gly Phe Val Leu Ala Glu Asp Gly  
                          625                      630                      635                      640  
 Arg Arg Cys Lys Lys Cys Thr Glu Gly Pro Ile Asp Leu Val Phe Val  
                          645                      650                      655  
 Ile Asp Gly Ser Lys Ser Leu Gly Glu Glu Asn Phe Glu Val Val Lys  
                          660                      665                      670  
 Gln Phe Val Thr Gly Ile Ile Asp Ser Leu Thr Ile Ser Pro Lys Ala  
                          675                      680                      685  
 Ala Arg Val Gly Leu Leu Gln Tyr Ser Thr Gln Val His Thr Glu Phe  
                          690                      695                      700  
 Thr Leu Arg Asn Phe Asn Ser Ala Lys Asp Met Lys Lys Ala Val Ala  
                          705                      710                      715                      720  
 His Met Lys Tyr Met Gly Lys Gly Ser Met Thr Gly Leu Ala Leu Lys  
                          754

725

730

735

His Met Phe Glu Arg Ser Phe Thr Gln Gly Glu Gly Ala Arg Pro Leu  
 740 745 750

Ser Thr Arg Val Pro Arg Ala Ala Ile Val Phe Thr Asp Gly Arg Ala  
 755 760 765

Gln Asp Asp Val Ser Glu Trp Ala Ser Lys Ala Arg Pro Trp Tyr His  
 770 775 780

Tyr Val Cys Cys Trp Gly Arg Lys Ser His  
 785 790

&lt;210&gt; 1293

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1293

Met Arg Arg Pro Ala Ala Val Pro Leu Leu Leu Leu Leu Cys Phe Gly  
 1 5 10 15

Ser Gln Arg Ala Lys Ala Ala Thr Ala Cys Gly Arg Pro Arg Met Leu  
 20 25 30

Asn Arg Met Val Gly Gly Gln  
 35

&lt;210&gt; 1294

&lt;211&gt; 290

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1294

Met Arg Arg Pro Ala Ala Val Pro Leu Leu Leu Leu Leu Cys Phe Gly  
 1 5 10 15

Ser Gln Arg Ala Lys Ala Ala Thr Ala Cys Gly Arg Pro Arg Met Leu  
 20 25 30

Asn Arg Met Val Gly Gly Gln Asp Thr Gln Glu Gly Glu Trp Pro Trp  
 35 40 45

Gln Val Ser Ile Gln Arg Asn Gly Ser His Phe Cys Gly Gly Ser Leu  
 50 55 60

Ile Ala Glu Gln Trp Val Leu Thr Ala Ala His Cys Phe Arg Asn Thr  
 65 70 75 80

Ser Glu Thr Ser Leu Tyr Gln Val Leu Leu Gly Ala Arg Gln Leu Val  
 85 90 95

Gln Pro Gly Pro His Ala Met Tyr Ala Arg Val Arg Gln Val Glu Ser  
 100 105 110

755

Asn Pro Leu Tyr Gln Gly Thr Ala Ser Ser Ala Asp Val Ala Leu Val  
 115 120 125  
 Glu Leu Glu Ala Pro Val Pro Phe Thr Asn Tyr Ile Leu Pro Val Cys  
 130 135 140  
 Leu Pro Asp Pro Ser Val Ile Phe Glu Thr Gly Met Asn Cys Trp Val  
 145 150 155 160  
 Thr Gly Trp Gly Ser Pro Ser Glu Glu Asp Leu Leu Pro Glu Pro Arg  
 165 170 175  
 Ile Leu Gln Lys Leu Ala Val Pro Ile Ile Asp Thr Pro Lys Cys Asn  
 180 185 190  
 Leu Leu Tyr Ser Lys Asp Thr Glu Phe Gly Tyr Gln Pro Lys Thr Ile  
 195 200 205  
 Lys Asn Asp Met Leu Cys Ala Gly Phe Glu Glu Gly Lys Lys Asp Ala  
 210 215 220  
 Cys Lys Gly Asp Ser Gly Gly Pro Leu Val Cys Leu Val Gly Gln Ser  
 225 230 235 240  
 Trp Leu Gln Ala Gly Val Ile Ser Trp Gly Glu Gly Cys Ala Arg Gln  
 245 250 255  
 Asn Arg Pro Gly Val Tyr Ile Arg Val Thr Ala His His Asn Trp Ile  
 260 265 270  
 His Arg Ile Ile Pro Lys Leu Gln Phe Gln Pro Ala Arg Leu Gly Gly  
 275 280 285  
 Gln Lys  
 290

<210> 1295  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (141)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1295  
 Met Leu Leu Gly Val Gly Leu Val Val Leu Ala Leu Ile Ala Gly Trp



1                      5                      10                      15  
 Val Leu Gln Gln Ala Asn Arg Ser Ala Gln Gln Leu Thr Ala Thr Gly  
                     20                      25                      30  
 Gln Ser Leu Met Gln Ser Gln Arg Leu Ala Lys Ser Val Ser Gln Ala  
                     35                      40                      45  
 Leu Val Gly Ser Pro Gln Ala Phe Pro Asp Val Val Glu Ser Ser Gly  
                     50                      55                      60  
 Val Leu Ala Arg Asn Val Arg Ala Leu Asn Gly Gly Xaa Asn Glu Leu  
                     65                      70                      75                      80  
 Asp Val Gln Ala Leu Gly Glu Pro Phe Arg Pro Glu Leu Asp Ala Ile  
                     85                      90                      95  
 Thr Pro Leu Val Glu Arg Ala Glu Arg Asn Ala Gly Val Val Met Gly  
                     100                      105                      110  
 Gln Gln Lys Ile Leu Thr Gln Val Gly Xaa Ala Leu Arg Thr Ile Lys  
                     115                      120                      125  
 Pro Pro Val Leu Gly Pro Cys Trp Arg Ser Arg Arg Xaa Ser Ser Ser  
                     130                      135                      140

<210> 1296  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1296  
 Thr Ser Arg Val Trp Cys Pro His Val Arg Arg Ash Arg Pro Ser Xaa  
                     1                      5                      10                      15

Gln Thr Ala Glu Pro Cys Ala Val Asn Trp Lys Ala Cys Lys Ala Thr  
                     20                      25                      30

Val Gly Thr Ile Gly His Gly Cys Gly Pro Ala Ile Ala Leu Ala Val  
                     35                      40                      45

Ala Gly Ile Phe Val Leu Leu Cys Gly Val Gly Ile Ser Arg Val Gln  
                     50                      55                      60

Leu Leu Asp Ser Arg Ser Arg Xaa Ala Thr Ala Glu Ala Gln Gln Arg

65	70	75	80
Asp Ala Lys Arg Gln Glu Gln Glu Ala Lys Arg Ile Asn Asp Ala Asn	85	90	95
Gln Ala Ala Ile Leu Arg Leu Met Asn Glu Leu Gln Ser Val Ala Glu	100	105	110
Gly Asp Leu Thr Gln Glu Ala Thr Val Thr Glu Asp Ile Thr Gly Ala	115	120	125
Ile Ala Asp Ser Val Asn Tyr Thr Val Glu Glu Ser Ala Ser Trp Trp	130	135	140
Ala Thr Cys Arg Thr Pro Arg Pro Gly Trp Pro Arg Pro Pro Arg Arg	145	150	155
Trp Thr Ala Pro Leu Arg Asn Cys Trp Arg Leu Arg Pro Ser Ser Cys	165	170	175
Val Lys Ser Val Lys Arg Ala Val Arg Cys Ser	180	185	

<210> 1297  
 <211> 346  
 <212> PRT  
 <213> Homo sapiens

<400> 1297  
 Met Leu Leu Gly Val Gly Leu Val Val Leu Ala Leu Ile Ala Gly Trp  
 1 5 10 15  
 Val Leu Gln Gln Ala Asn Arg Ser Ala Gln Gln Leu Thr Ala Thr Gly  
 20 25 30  
 Gln Ser Leu Met Gln Ser Gln Arg Leu Ala Lys Ser Val Ser Gln Ala  
 35 40 45  
 Leu Val Gly Ser Pro Gln Ala Phe Pro Asp Val Val Glu Ser Ser Gly  
 50 55 60  
 Val Leu Ala Arg Asn Val Arg Ala Leu Asn Gly Gly Asp Asn Glu Leu  
 65 70 75 80  
 Asp Val Gln Ala Leu Gly Glu Pro Phe Arg Pro Glu Leu Asp Ala Ile  
 85 90 95  
 Thr Pro Leu Val Glu Arg Ala Glu Arg Asn Ala Gly Val Val Met Gly  
 100 105 110  
 Gln Gln Lys Ile Leu Thr Gln Val Gly Asp Ala Leu Arg Thr Ile Asn  
 115 120 125  
 Arg Gln Ser Ser Asp Leu Leu Glu Ile Ala Glu Thr Val Ser Ser Leu  
 130 135 140  
 Lys Leu Gln Gln Asn Ala Pro Ala Ser Glu Ile Ser Ala Ala Gly Gln  
 145 150 155 160

Leu Val Met Leu Thr Gln Arg Ile Gly Lys Ser Ala Asn Glu Phe Gln  
 165 170 175  
 Thr Thr Glu Gly Val Ser Pro Glu Ala Val Phe Leu Leu Gly Lys Asp  
 180 185 190  
 Leu Asn Ser Phe Lys Glu Ile Ala Arg Gly Met Leu Asp Gly Ser Ala  
 195 200 205  
 Asp Leu Arg Leu Ala Ala Thr Arg Asp Ala Gln Thr Arg Glu Gln Leu  
 210 215 220  
 Glu Ser Leu Ile Lys Leu Tyr Glu Gln Thr Arg Thr Gln Ala Gly Ala  
 225 230 235 240  
 Ile Leu Gly Asn Leu Gln Gly Leu Val Ser Ala Arg Glu Ala Gln Ser  
 245 250 255  
 Ala Ile Leu Ala Asp Ser Glu Pro Leu Arg Arg Gln Leu Glu Gly Leu  
 260 265 270  
 Gln Ser Lys Leu Ser Ala Gln Ser Gly Met Gly Ala Ala Ser Ser Leu  
 275 280 285  
 Arg Ser Pro Ser Pro Val Ser Ser Ser Cys Cys Ala Ala Trp Val Phe  
 290 295 300  
 Arg Ala Cys Ser Cys Trp Thr Ala Ala Ala Ala Lys Pro Arg Pro Lys  
 305 310 315 320  
 His Ser Ser Val Met Pro Ser Ala Arg Asn Arg Lys Pro Ser Ala Ser  
 325 330 335  
 Thr Thr Pro Thr Arg Arg Pro Phe Cys Asp  
 340 345

<210> 1298  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 1298  
 Met His Leu Val Gly Gly Thr Leu Leu Val Leu Ala Pro Arg Gly Ala  
 1 5 10 15  
 Val Leu Pro Leu Ser Ser Gln Ser Met Pro Phe Leu Gln  
 20 25

<210> 1299  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 1299  
 Met His Leu Val Gly Gly Thr Leu Leu Val Leu Ala Pro Arg Gly Ala

760

Ile Trp Phe Ala Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly  
 260 265 270

Thr Ser Ser Lys Lys Val Ile Tyr Ser Gln Pro Ser Ala Arg Ser Glu  
 275 280 285

Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val  
 290 295

<210> 1301

<211> 299

<212> PRT

<213> Homo sapiens

<400> 1301

Met Gly Thr Lys Ala Gln Val Glu Arg Lys Leu Leu Cys Leu Phe Ile  
 1 5 10 15

Leu Ala Ile Leu Leu Cys Ser Leu Ala Leu Gly Ser Val Thr Val His  
 20 25 30

Ser Ser Glu Pro Glu Val Arg Ile Pro Glu Asn Asn Pro Val Lys Leu  
 35 40 45

Ser Cys Ala Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe  
 50 55 60

Asp Gln Gly Asp Thr Thr Arg Leu Val Cys Tyr Asn Asn Lys Ile Thr  
 65 70 75 80

Ala Ser Tyr Glu Asp Arg Val Thr Phe Leu Pro Thr Gly Ile Thr Phe  
 85 90 95

Lys Ser Val Thr Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser  
 100 105 110

Glu Glu Gly Gly Asn Ser Tyr Gly Glu Val Lys Val Lys Leu Ile Val  
 115 120 125

Leu Val Pro Pro Ser Lys Pro Thr Val Asn Ile Pro Ser Ser Ala Thr  
 130 135 140

Ile Gly Asn Arg Ala Val Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro  
 145 150 155 160

Pro Ser Glu Tyr Thr Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn  
 165 170 175

Pro Lys Ser Thr Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro  
 180 185 190

Thr Thr Gly Glu Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly  
 195 200 205

Glu Tyr Ser Cys Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser  
 210 215 220

Asn Ala Val Arg Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val  
 225                      230                      235                      240  
 Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe Gly  
                          245                      250                      255  
 Ile Trp Phe Ala Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly  
                          260                      265                      270  
 Thr Ser Ser Lys Lys Val Ile Tyr Ser Gln Pro Ser Ala Arg Ser Glu  
                          275                      280                      285  
 Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val  
                          290                      295

<210> 1302  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<400> 1302  
 Ala Arg Ala Lys Pro Glu Arg Pro Ala Gly Trp Ala Glu Ser Val Leu  
   1                          5                          10                          15  
 Glu Glu Asp Ala Ser Glu Leu Glu Pro Ala Phe Ser Arg Thr Val Gly  
                           20                          25                          30  
 Thr Ile Gln His Cys Leu His Leu Thr Ser Val Tyr Thr His Phe Leu  
                           35                          40                          45  
 Pro Gln Arg Gly Arg Pro Glu Val Thr Thr Met Pro Leu Gly Leu Gly  
                           50                          55                          60  
 Met Thr Val Asp Tyr Ile Phe Phe Ser Ala Glu Ser Cys Glu Asn Gly  
   65                          70                          75                          80  
 Asn Arg Thr Asp His Arg Leu Tyr Arg Asp Gly Thr Leu Lys Leu Leu  
                           85                          90                          95  
 Gly Arg Leu Ser Leu Leu Ser Glu Glu Ile Leu Trp Ala Ala Asn Gly  
                           100                          105                          110  
 Leu Pro Asn Pro Phe Cys Ser Ser Asp His Leu Cys Leu Leu Ala Ser  
                           115                          120                          125  
 Phe Gly Met Glu Val Thr Ala Pro  
                           130                          135

<210> 1303  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1303

Met Ile Ala Ser Cys Leu Cys Tyr Leu Leu Leu Pro Ala Thr Arg Leu  
1 5 10 15

Phe Arg Ala Leu Ser Xaa Ala Phe Phe Thr Cys Arg Lys Asn Val Leu  
20 25 30

Leu Ala Asn Ser Ser Ser Pro Gln Val Glu Gly Asp Phe Ala Met Ala  
35 40 45

Pro Arg Gly Pro Glu Gln Glu Glu Cys Glu Gly Leu Leu Gln Gln Trp  
50 55 60

Arg Glu Glu Gly Leu Ser Gln Val Leu Ser Thr Ala Ser Glu Gly Pro  
65 70 75 80

Leu Ile Xaa Lys Gly Leu Ala Gln Ser Ser Leu Xaa Leu Leu Xaa Asp  
85 90 95

Asn Pro Gly Glu  
100

<210> 1304

<211> 670

<212> PRT

<213> Homo sapiens

<400> 1304

Met Ile Ala Ser Cys Leu Cys Tyr Leu Leu Leu Pro Ala Thr Arg Leu  
1 5 10 15

Phe Arg Ala Leu Ser Asp Ala Phe Phe Thr Cys Arg Lys Asn Val Leu  
20 25 30

Leu Ala Asn Ser Ser Ser Pro Gln Val Glu Gly Asp Phe Ala Met Ala  
35 40 45

Pro Arg Gly Pro Glu Gln Glu Glu Cys Glu Gly Leu Leu Gln Gln Trp  
50 55 60

Arg Glu Glu Gly Leu Ser Gln Val Leu Ser Thr Ala Ser Glu Gly Pro

65	70	75	80
Leu Ile Asp Lys Gly Leu Ala Gln Ser Ser Leu Ala Leu Leu Met Asp			
	85	90	95
Asn Pro Gly Glu Glu Asn Ala Ala Ser Glu Asp Arg Trp Ser Ser Arg			
	100	105	110
Gln Leu Ser Asp Leu Arg Ala Ala Glu Asn Leu Asp Glu Pro Phe Pro			
	115	120	125
Glu Met Leu Gly Glu Glu Pro Leu Leu Glu Val Glu Gly Val Glu Gly			
	130	135	140
Ser Met Trp Ala Ala Ile Pro Met Gln Ser Glu Pro Gln Tyr Ala Asp			
	145	150	155
Cys Ala Ala Leu Pro Val Gly Ala Leu Ala Thr Glu Gln Trp Glu Glu			
	165	170	175
Asp Pro Ala Val Leu Ala Trp Ser Ile Ala Pro Glu Pro Val Pro Gln			
	180	185	190
Glu Glu Ala Ser Ile Trp Pro Phe Glu Gly Leu Gly Gln Leu Gln Pro			
	195	200	205
Pro Ala Val Glu Ile Pro Tyr His Glu Ile Leu Trp Arg Glu Trp Glu			
	210	215	220
Asp Phe Ser Thr Gln Pro Asp Ala Gln Gly Leu Lys Ala Gly Asp Gly			
	225	230	235
Pro Gln Phe Gln Phe Thr Leu Met Ser Tyr Asn Ile Leu Ala Gln Asp			
	245	250	255
Leu Met Gln Gln Ser Ser Glu Leu Tyr Leu His Cys His Pro Asp Ile			
	260	265	270
Leu Asn Trp Asn Tyr Arg Phe Val Asn Leu Met Gln Glu Phe Gln His			
	275	280	285
Trp Asp Pro Asp Ile Leu Cys Leu Gln Glu Val Gln Glu Asp His Tyr			
	290	295	300
Trp Glu Gln Leu Glu Pro Ser Leu Arg Met Met Gly Phe Thr Cys Phe			
	305	310	315
Tyr Lys Arg Arg Thr Gly Cys Lys Thr Asp Gly Cys Ala Val Cys Tyr			
	325	330	335
Lys Pro Thr Arg Phe Arg Leu Leu Cys Ala Ser Pro Val Glu Tyr Phe			
	340	345	350
Arg Pro Gly Leu Glu Leu Leu Asn Arg Asp Asn Val Gly Leu Val Leu			
	355	360	365
Leu Leu Gln Pro Leu Val Pro Glu Gly Leu Gly Gln Val Ser Val Ala			
	370	375	380
Pro Leu Cys Val Ala Asn Thr His Ile Leu Tyr Asn Pro Arg Arg Gly			



385                      390                      395                      400  
 Asp Val Lys Leu Ala Gln Met Ala Ile Leu Leu Ala Glu Val Asp Lys  
                                  405                                   410                                   415  
 Val Ala Arg Leu Ser Asp Gly Ser His Cys Pro Ile Ile Leu Cys Gly  
                                  420                                   425                                   430  
 Asp Leu Asn Ser Val Pro Asp Ser Pro Leu Tyr Asn Phe Ile Arg Asp  
                                  435                                   440                                   445  
 Gly Glu Leu Gln Tyr His Gly Met Pro Ala Trp Lys Val Ser Gly Gln  
                                  450                                   455                                   460  
 Glu Asp Phe Ser His Gln Leu Tyr Gln Arg Lys Leu Gln Ala Pro Leu  
                                  465                                   470                                   475                                   480  
 Trp Pro Ser Ser Leu Gly Ile Thr Asp Cys Cys Gln Tyr Val Thr Ser  
                                  485                                   490                                   495  
 Cys His Pro Lys Arg Ser Glu Arg Arg Lys Tyr Gly Arg Asp Phe Leu  
                                  500                                   505                                   510  
 Leu Arg Phe Arg Phe Cys Ser Ile Ala Cys Gln Arg Pro Val Gly Leu  
                                  515                                   520                                   525  
 Val Leu Met Glu Gly Val Thr Asp Thr Lys Pro Glu Arg Pro Ala Gly  
                                  530                                   535                                   540  
 Trp Ala Glu Ser Val Leu Glu Glu Asp Ala Ser Glu Leu Glu Pro Ala  
                                  545                                   550                                   555                                   560  
 Phe Ser Arg Thr Val Gly Thr Ile Gln His Cys Leu His Leu Thr Ser  
                                  565                                   570                                   575  
 Val Tyr Thr His Phe Leu Pro Gln Arg Gly Arg Pro Glu Val Thr Thr  
                                  580                                   585                                   590  
 Met Pro Leu Gly Leu Gly Met Thr Val Asp Tyr Ile Phe Phe Ser Ala  
                                  595                                   600                                   605  
 Glu Ser Cys Glu Asn Gly Asn Arg Thr Asp His Arg Leu Tyr Arg Asp  
                                  610                                   615                                   620  
 Gly Thr Leu Lys Leu Leu Gly Arg Leu Ser Leu Leu Ser Glu Glu Ile  
                                  625                                   630                                   635                                   640  
 Leu Trp Ala Ala Asn Gly Leu Pro Asn Pro Phe Cys Ser Ser Asp His  
                                  645                                   650                                   655  
 Leu Cys Leu Leu Ala Ser Phe Gly Met Glu Val Thr Ala Pro  
                                  660                                   665                                   670

&lt;210&gt; 1305

&lt;211&gt; 228

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
 <221> SITE  
 <222> (164)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (167)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (200)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (206)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (221)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1305  
 Met Ala Ala Ala Gly Ser Val Lys Ala Ala Leu Gln Val Ala Glu Val  
 1 5 10 15  
 Leu Glu Ala Ile Val Ser Cys Cys Val Gly Pro Glu Gly Arg Gln Val  
 20 25 30  
 Leu Cys Thr Lys Pro Thr Gly Glu Val Leu Leu Ser Arg Asn Gly Gly  
 35 40 45  
 Arg Leu Leu Glu Ala Leu His Leu Glu His Pro Ile Ala Arg Met Ile  
 50 55 60  
 Val Asp Cys Val Ser Ser His Leu Lys Lys Thr Gly Asp Gly Ala Lys  
 65 70 75 80  
 Thr Phe Ile Ile Phe Leu Cys His Leu Leu Arg Gly Leu His Ala Ile  
 85 90 95  
 Thr Asp Arg Glu Lys Asp Pro Leu Met Cys Glu Asn Ile Gln Thr His  
 100 105 110  
 Gly Arg His Trp Lys Asn Cys Ser Arg Trp Lys Phe Ile Ser Gln Ala  
 115 120 125  
 Leu Leu Thr Phe Gln Thr Gln Ile Leu Asp Gly Ile Met Asp Gln Tyr  
 130 135 140  
 Leu Ser Arg His Phe Leu Ser Ile Phe Ser Ser Ala Lys Glu Arg Thr  
 145 150 155 160  
 Leu Cys Arg Xaa Ser Leu Xaa Leu Leu Leu Glu Ala Tyr Phe Cys Gly  
 165 170 175  
 Lys Val Gly Arg Asn Asn His Lys Phe Ile Ser Gln Leu Met Cys Asp

180

185

190

Tyr Phe Phe Lys Cys Met Thr Xaa Lys Ser Gly Ile Gly Xaa Phe Glu  
 195 200 205

Leu Gly Asp Asp His Phe Val Lys Leu Asn Val Gly Xaa Leu Ala Phe  
 210 215 220

Leu Phe Lys Phe  
 225

&lt;210&gt; 1306

&lt;211&gt; 170

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1306

Met Ala Ala Ala Gly Ser Val Lys Ala Ala Leu Gln Val Ala Glu Val  
 1 5 10 15

Leu Glu Ala Ile Val Ser Cys Cys Val Gly Pro Glu Gly Arg Gln Val  
 20 25 30

Leu Cys Thr Lys Pro Thr Gly Glu Val Leu Leu Ser Arg Asn Gly Gly  
 35 40 45

Arg Leu Leu Glu Ala Leu His Leu Glu His Pro Ile Ala Arg Met Ile  
 50 55 60

Val Asp Cys Val Ser Ser His Leu Lys Lys Thr Gly Asp Gly Ala Lys  
 65 70 75 80

Thr Phe Ile Ile Phe Leu Cys His Leu Leu Arg Gly Leu His Ala Ile  
 85 90 95

Thr Asp Arg Glu Lys Asp Pro Leu Met Cys Glu Asn Ile Gln Thr His  
 100 105 110

Gly Arg His Trp Lys Asn Cys Ser Arg Trp Lys Phe Ile Ser Gln Ala  
 115 120 125

Leu Leu Thr Phe Gln Thr Gln Ile Leu Asp Gly Ile Met Asp Gln Tyr  
 130 135 140

Leu Ser Arg His Phe Leu Ser Ile Phe Ser Ser Ala Lys Glu Arg Thr  
 145 150 155 160

Leu Cys Arg Ser Ser Leu Glu Ser Val Ser  
 165 170

&lt;210&gt; 1307

&lt;211&gt; 149

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (95)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (107)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1307  
 Met Gly Ala Pro Leu Leu Ser Pro Gly Trp Gly Ala Gly Ala Ala Gly  
           1                  5                  10                  15  
 Arg Arg Trp Trp Met Leu Leu Ala Pro Leu Leu Pro Ala Leu Leu Leu  
                   20                  25                  30  
 Val Arg Pro Ala Gly Ala Leu Val Glu Gly Leu Tyr Cys Gly Thr Arg  
           35                  40                  45  
 Asp Cys Tyr Glu Val Leu Gly Val Ser Arg Ser Ala Gly Lys Ala Glu  
           50                  55                  60  
 Ile Ala Arg Ala Tyr Arg Gln Leu Ala Arg Arg Tyr His Pro Asp Arg  
           65                  70                  75                  80  
 Tyr Arg Pro Gln Pro Gly Xaa Glu Gly Pro Gly Arg Thr Pro Xaa Ser  
                   85                  90                  95  
 Ala Glu Glu Ala Phe Leu Leu Val Ala Thr Xaa Tyr Glu Thr Leu Lys  
           100                  105                  110  
 Asp Glu Glu Thr Arg Lys Asp Tyr Asp Tyr Met Leu Asp His Pro Glu  
           115                  120                  125  
 Glu Tyr Tyr Ser His Tyr Tyr His Tyr Tyr Ser Arg Arg Leu Ala Leu  
           130                  135                  140  
 Arg Trp Met Leu Glu  
 145

<210> 1308  
 <211> 360  
 <212> PRT  
 <213> Homo sapiens

<400> 1308  
 Met Gly Ala Pro Leu Leu Ser Pro Gly Trp Gly Ala Gly Ala Ala Gly  
           1                  5                  10                  15  
 Arg Arg Trp Trp Met Leu Leu Ala Pro Leu Leu Pro Ala Leu Leu Leu  
                   20                  25                  30  
 Val Arg Pro Ala Gly Ala Leu Val Glu Gly Leu Tyr Cys Gly Thr Arg

35 40 45  
 Asp Cys Tyr Glu Val Leu Gly Val Ser Arg Ser Ala Gly Lys Ala Glu  
 50 55 60  
 Ile Ala Arg Ala Tyr Arg Gln Leu Ala Arg Arg Tyr His Pro Asp Arg  
 65 70 75 80  
 Tyr Arg Pro Gln Pro Gly Asp Glu Gly Pro Gly Arg Thr Pro Gln Ser  
 85 90 95  
 Ala Glu Glu Ala Phe Leu Leu Val Ala Thr Ala Tyr Glu Thr Leu Lys  
 100 105 110  
 Asp Glu Glu Thr Arg Lys Asp Tyr Asp Tyr Met Leu Asp His Pro Glu  
 115 120 125  
 Glu Tyr Tyr Ser His Tyr Tyr His Tyr Tyr Ser Arg Arg Leu Ala Pro  
 130 135 140  
 Lys Val Asp Val Arg Val Val Ile Leu Val Ser Val Cys Ala Ile Ser  
 145 150 155 160  
 Val Phe Gln Phe Phe Ser Trp Trp Asn Ser Tyr Asn Lys Ala Ile Ser  
 165 170 175  
 Tyr Leu Ala Thr Val Pro Lys Tyr Arg Ile Gln Ala Thr Glu Ile Ala  
 180 185 190  
 Lys Gln Gln Gly Leu Leu Lys Lys Ala Lys Glu Lys Gly Lys Asn Lys  
 195 200 205  
 Lys Ser Lys Glu Glu Ile Arg Asp Glu Glu Glu Asn Ile Ile Lys Asn  
 210 215 220  
 Ile Ile Lys Ser Lys Ile Asp Ile Lys Gly Gly Tyr Gln Lys Pro Gln  
 225 230 235 240  
 Ile Cys Asp Leu Leu Leu Phe Gln Ile Ile Leu Ala Pro Phe His Leu  
 245 250 255  
 Cys Ser Tyr Ile Val Trp Tyr Cys Arg Trp Ile Tyr Asn Phe Asn Ile  
 260 265 270  
 Lys Gly Lys Glu Tyr Gly Glu Glu Glu Arg Leu Tyr Ile Ile Arg Lys  
 275 280 285  
 Ser Met Lys Met Ser Lys Ser Gln Phe Asp Ser Leu Glu Asp His Gln  
 290 295 300  
 Lys Glu Thr Phe Leu Lys Arg Glu Leu Trp Ile Lys Glu Asn Tyr Glu  
 305 310 315 320  
 Val Tyr Lys Gln Glu Gln Glu Glu Glu Leu Lys Lys Lys Leu Ala Asn  
 325 330 335  
 Asp Pro Arg Trp Lys Arg Tyr Arg Arg Trp Met Lys Asn Glu Gly Pro  
 340 345 350  
 Gly Arg Leu Thr Phe Val Asp Asp

355

360

<210> 1309  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1309  
 Met Glu Ser His Leu Ser Thr Trp Pro Cys His Pro Ser Cys Cys Leu  
 1 5 10 15

Phe Leu Ile Leu Leu Phe Pro Ser His Pro Thr Ser Met Thr Lys Ser  
 20 25 30

Lys Ala Arg Leu Pro His Leu Glu Asn Cys Ser Gln Asn Asp Thr Ser  
 35 40 45

Lys Pro Leu Gly Gln Ala Arg Pro Pro Ser Ser Pro Thr Arg Thr Thr  
 50 55 60

Asp Leu Thr Thr Gly Pro Thr Ser Ser Pro Ala Pro Leu Gly Ile Leu  
 65 70 75 80

His Thr Ala Val Arg Val Thr His Leu His Thr Leu Thr Leu Met Gly  
 85 90 95

Glu Glu Lys Ala Val Phe Val Ala Arg Ala Gln Val Gly Asn Leu Gly  
 100 105 110

Leu Val Phe Arg Lys Ala Arg Gly Ser Xaa Phe Pro Thr Leu Gly Arg  
 115 120 125

<210> 1310  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens.

<400> 1310  
 Met Glu Ser His Leu Ser Thr Trp Pro Cys His Pro Ser Cys Cys Leu  
 1 5 10 15

Phe Leu Ile Leu Leu Phe Pro Ser His Pro Thr Ser Met Thr Lys Ser  
 20 25 30

Lys Ala Arg Leu Pro His Leu Glu Asn Cys Ser Gln Asn Asp Thr Ser  
 35 40 45

Lys Pro Leu Gly Gln Ala Arg Pro Pro Ser Ser Pro Thr Arg Thr Thr

770

50

55

60

Asp Leu Thr Thr Gly Pro Thr Ser Ser Pro Ala Pro Leu Gly Ile Leu  
65 70 75 80

His Thr Ala Val Arg Val Thr His Leu His Thr Leu Thr Leu Met Gly  
85 90 95

Glu Glu Lys Ala Val Phe Val Ala Arg Ala Gln Val Gly Thr Leu Ala  
100 105 110

&lt;210&gt; 1311

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1311

Met Phe Val Ser Val Thr Ala Phe Phe Phe Ser Leu Leu Phe Leu Gly  
1 5 10 15

Met Phe Leu Ser Gly Met Val Ala Gln Ile Asp Ala Asn Trp Asn Phe  
20 25 30

Leu Asp Phe Ala Tyr His Phe Thr Val Phe Val Phe Tyr Phe Gly Ala  
35 40 45

Phe Leu Leu Glu Ala Ala Ala Thr Ser Leu His Asp Leu His Cys Asn  
50 55 60

Thr Thr Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn Gln Tyr Asn Ile  
65 70 75 80

Asn Val Ala Ala Ser Ile Phe Ala Phe Met Thr Thr Ala Cys Tyr Gly  
85 90 95

Cys Ser Leu Gly Leu Ala Leu Arg Arg Trp Arg Pro  
100 105

&lt;210&gt; 1312

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1312

Asn His Ile Gln His Lys Asn Tyr Phe Trp Leu Asn Ser Thr Glu Lys  
1 5 10 15

Tyr Phe Asn Leu Pro Val Glu Ile Leu Val Met Glu Arg Cys Gln Thr  
20 25 30

Val Leu Asn Gly Arg Thr Ser Lys Ser Glu Ala Thr Val Pro Thr Thr  
35 40 45

Arg Gly Leu Leu Tyr Cys Ser Thr Phe Ser Ala Leu Tyr Phe Leu Ala  
 50 55 60  
 Glu Ala Ser Pro Trp Ser Ala Met Tyr Lys Leu Gly Tyr  
 65 70 75

<210> 1313  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 1313  
 Met Phe Val Ser Val Thr Ala Phe Phe Phe Ser Leu Leu Phe Leu Gly  
 1 5 10 15  
 Met Phe Leu Ser Gly Met Val Ala Gln Ile Asp Ala Asn Trp Asn Phe  
 20 25 30  
 Leu Asp Phe Ala Tyr His Phe Thr Val Phe Val Phe Tyr Phe Gly Ala  
 35 40 45  
 Phe Leu Leu Glu Ala Ala Ala Thr Ser Leu His Asp Leu His Cys Asn  
 50 55 60  
 Thr Thr Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn Gln Tyr Asn Ile  
 65 70 75 80  
 Asn Val Ala Ala Ser Ile Phe Ala Phe Met Thr Thr Ala Trp Tyr Gly  
 85 90 95  
 Cys Ser Leu Gly Leu Ala Leu Arg Arg Trp Arg Pro  
 100 105

<210> 1314  
 <211> 176  
 <212> PRT  
 <213> Homo sapiens

<400> 1314  
 Met Ser Ala Gly Gly Ala Ser Val Pro Pro Pro Asn Pro Ala Val  
 1 5 10 15  
 Ser Phe Pro Pro Pro Arg Val Thr Leu Pro Ala Gly Pro Asp Ile Leu  
 20 25 30  
 Arg Thr Tyr Ser Gly Ala Phe Val Cys Leu Glu Ile Leu Phe Gly Gly  
 35 40 45  
 Leu Val Trp Ile Leu Val Ala Ser Ser Asn Val Pro Leu Pro Leu Leu  
 50 55 60  
 Gln Gly Trp Val Met Phe Val Ser Val Thr Ala Phe Phe Phe Ser Leu  
 65 70 75 80  
 Leu Phe Leu Gly Met Phe Leu Ser Gly Met Val Ala Gln Ile Asp Ala  
 85 90 95



Asn Trp Asn Phe Leu Asp Phe Ala Tyr His Phe Thr Val Phe Val Phe  
                   100                  105                  110  
 Tyr Phe Gly Ala Phe Leu Leu Glu Ala Ala Ala Thr Ser Leu His Asp  
           115                  120                  125  
 Leu His Cys Asn Thr Thr Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn  
           130                  135                  140  
 Gln Tyr Asn Ile Asn Val Ala Ala Ser Ile Phe Ala Phe Met Thr Thr  
           145                  150                  155                  160  
 Ala Cys Tyr Gly Cys Ser Leu Gly Leu Ala Leu Arg Arg Trp Arg Pro  
                   165                  170                  175

<210> 1315  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 1315  
 Met Pro Leu Cys Ser Leu Leu Thr Cys Leu Gly Leu Asn Val Leu Phe  
   1                  5                  10                  15  
 Leu Thr Leu Asn Glu Gly Ala Trp Tyr Ser Val Gly Ala Leu Met Ile  
           20                  25                  30  
 Ser Val Pro Ala Leu Leu Gly Tyr Leu Gln Glu Val Cys Arg Ala Arg  
           35                  40                  45  
 Leu Pro Asp Ser Glu Leu Met Arg Arg Lys Tyr His Ser Val Arg Gln  
           50                  55                  60  
 Glu Asp Leu Gln Arg Val Arg Leu Ser Arg Pro Glu Ala Val Ala Glu  
           65                  70                  75                  80  
 Val Lys Ser Phe Leu Ile Gln Leu Glu Ala Phe Leu Lys Pro Pro Val  
                   85                  90                  95  
 Leu His Met Leu Lys Pro Pro  
           100

<210> 1316  
 <211> 237  
 <212> PRT  
 <213> Homo sapiens

<400> 1316  
 Met Pro Leu Cys Ser Leu Leu Thr Cys Leu Gly Leu Asn Val Leu Phe  
   1                  5                  10                  15  
 Leu Thr Leu Asn Glu Gly Ala Trp Tyr Ser Val Gly Ala Leu Met Ile

<220>  
<221> SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1317

Met Ala Arg Leu Gly Ala Val Arg Ser His Tyr Cys Ala Leu Leu Leu  
 1 5 10 15

Ala Ala Ala Leu Ala Val Cys Ala Phe Tyr Tyr Leu Gly Ser Gly Arg  
 20 25 30

Glu Thr Phe Ser Ser Ala Thr Lys Arg Leu Lys Glu Ala Arg Ala Gly  
 35 40 45

Ala Pro Ala Ala Pro Xaa Pro Pro Ala Leu Glu Leu Ala Xaa Gly Xaa  
 50 55 60

Val Ala Pro Ala Pro Gly Ala Lys Ala Lys Ser Leu Glu Gly Gly Gly  
 65 70 75 80

Ala Gly Pro Val Asp Tyr His Leu Leu Met Met Phe Thr Lys Ala Xaa  
 85 90 95

His Asn Ala Ala Leu Gln Ala Lys Ala Arg Val Ala Leu Arg Ser Leu  
 100 105 110

Leu Arg Leu Ala Lys Phe Glu Ala His Glu Val Leu Asn Leu His Phe  
 115 120 125

Val Ser Glu Glu Ala Ser Arg Glu Val Ala Lys Gly Leu Leu Arg Glu  
 130 135 140

Leu Leu Pro Pro Pro Leu Ala Ser Ser Ala Arg Ser Ser Ser Thr Ile  
 145 150 155 160

Cys Cys Ala Asp Gly  
 165

&lt;210&gt; 1318

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1318

Ala Ser Lys Arg Met Pro Ala His His Ile Leu Thr Leu Gly Gly Cys  
 1 5 10 15

Cys Thr Arg Ile Leu Leu Met Leu Thr Ser Leu Gly Val Gly Phe Arg  
 20 25 30

Ile Ala Ser Leu Arg Lys Asp Phe Arg Thr Asn Trp Gly Leu His Lys  
 35 40 45

Lys Thr Tyr Leu Ile Ile Arg Val Leu Thr Ala Cys Ile Ser Gln Leu

50 55 60  
 His Pro Arg Thr Pro Leu Ser Phe Ile Pro Pro Asn Gln Leu Gln Val  
 65 70 75 80  
 Thr Arg Leu Tyr Ser Glu Ser Lys Phe Val Ile Lys Glu Gln Arg Leu  
 85 90 95  
 Ala Thr Thr Arg Thr Cys Arg Arg Thr Val Gly Thr Arg Lys Thr His  
 100 105 110  
 Ser Lys Lys Pro Arg Pro Gly Thr Val Val Lys Pro Val Ile Pro Thr  
 115 120 125  
 Leu Trp Glu Thr Glu Val Gly Val Ser Ile Glu Pro Arg Arg Ser Arg  
 130 135 140  
 Ser Ala Trp Glu Thr Gln Gly Gly Pro His Arg Tyr Lys Ile Phe  
 145 150 155  
  
 <210> 1319  
 <211> 380  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1319  
 Met Ala Arg Leu Gly Ala Val Arg Ser His Tyr Cys Ala Leu Leu Leu  
 1 5 10 15  
 Ala Ala Ala Leu Ala Val Cys Ala Phe Tyr Tyr Leu Gly Ser Gly Arg  
 20 25 30  
 Glu Thr Phe Ser Ser Ala Thr Lys Arg Leu Lys Glu Ala Arg Ala Gly  
 35 40 45  
 Ala Pro Ala Ala Pro Ser Pro Pro Ala Leu Glu Leu Ala Arg Gly Ser  
 50 55 60  
 Val Ala Pro Ala Pro Gly Ala Lys Ala Lys Ser Leu Glu Gly Gly Gly  
 65 70 75 80  
 Ala Gly Pro Val Asp Tyr His Leu Leu Met Met Phe Thr Lys Ala Glu  
 85 90 95  
 His Asn Ala Ala Leu Gln Ala Lys Ala Arg Val Ala Leu Arg Ser Leu  
 100 105 110  
 Leu Arg Leu Ala Lys Phe Glu Ala His Glu Val Leu Asn Leu His Phe  
 115 120 125  
 Val Ser Glu Glu Ala Ser Arg Glu Val Ala Lys Gly Leu Leu Arg Glu  
 130 135 140  
 Leu Leu Pro Pro Ala Ala Gly Phe Lys Cys Lys Val Ile Phe His Asp  
 145 150 155 160  
 Val Ala Val Leu Thr Asp Lys Leu Phe Pro Ile Val Glu Ala Met Gln  
 165 170 175

Lys His Phe Ser Ala Gly Leu Gly Thr Tyr Tyr Ser Asp Ser Ile Phe  
 180 185 190  
 Phe Leu Ser Val Ala Met His Gln Ile Met Pro Lys Glu Ile Leu Gln  
 195 200 205  
 Ile Ile Gln Leu Asp Leu Asp Leu Lys Phe Lys Thr Asn Ile Arg Glu  
 210 215 220  
 Leu Phe Glu Glu Phe Asp Ser Phe Leu Pro Gly Ala Ile Ile Gly Ile  
 225 230 235 240  
 Ala Arg Glu Met Gln Pro Val Tyr Arg His Thr Phe Trp Gln Phe Arg  
 245 250 255  
 His Glu Asn Pro Gln Thr Arg Val Gly Gly Pro Pro Pro Glu Gly Leu  
 260 265 270  
 Pro Gly Phe Asn Ser Gly Val Met Leu Leu Asn Leu Glu Ala Met Arg  
 275 280 285  
 Gln Ser Pro Leu Tyr Ser Arg Leu Leu Glu Pro Ala Gln Val Gln Gln  
 290 295 300  
 Leu Ala Asp Lys Tyr His Phe Arg Gly His Leu Gly Asp Gln Asp Phe  
 305 310 315 320  
 Phe Thr Met Ile Gly Met Glu His Pro Lys Leu Phe His Val Leu Asp  
 325 330 335  
 Cys Thr Trp Asn Arg Gln Leu Cys Thr Trp Trp Arg Asp His Gly Tyr  
 340 345 350  
 Ser Asp Val Phe Glu Ala Tyr Phe Arg Cys Glu Gly His Val Lys Ile  
 355 360 365  
 Tyr His Gly Asn Cys Asn Thr Pro Ile Pro Glu Asp  
 370 375 380

<210> 1320  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 1320  
 Leu Glu Ser Tyr Ser Ser Val Arg Glu Leu Leu Val Ser Val Arg Phe  
 1 5 10 15  
 Tyr Val Val Cys Lys Val Arg Gly Ser Val Leu Phe Pro Tyr Leu Gly  
 20 25 30  
 Lys Ser Thr Ala Gly Val Glu Gly Leu Tyr Val Pro Phe Asn Val Thr  
 35 40 45  
 Val Leu Lys Asp Leu Ser Arg Glu Ser Glu Ser Phe Ala Glu Cys Asp  
 50 55 60

Arg Arg Leu Asn Asn Leu Ile Cys Phe  
65 70

<210> 1321  
<211> 95  
<212> PRT  
<213> Homo sapiens

<400> 1321  
Met Ala Ala Ser Arg Trp Ala Arg Lys Ala Val Val Leu Leu Cys Ala  
1 5 10 15

Ser Asp Leu Leu Leu Leu Leu Leu Leu Pro Pro Pro Gly Ser Cys  
20 25 30

Ala Ala Glu Ala Arg Pro Gly Arg Pro Thr Ser Leu Pro His Leu Pro  
35 40 45

Gly Arg Arg Arg Arg Ile Phe Ala Ile Thr Met Met Gln Thr Trp Arg  
50 55 60

Val Phe Trp Ser Asn Gly Arg Lys Met Met Thr Leu Lys Lys Glu Ile  
65 70 75 80

Phe Gln Ser Thr Arg Asp Leu Gln His Leu Ser Thr Ser Gln Arg  
85 90 95

<210> 1322  
<211> 234  
<212> PRT  
<213> Homo sapiens

<400> 1322  
Met Ala Ala Ser Arg Trp Ala Arg Lys Ala Val Val Leu Leu Cys Ala  
1 5 10 15

Ser Asp Leu Leu Leu Leu Leu Leu Leu Leu Pro Pro Pro Gly Ser Cys  
20 25 30

Ala Ala Glu Gly Ser Pro Gly Thr Pro Asp Glu Ser Thr Pro Pro Pro  
35 40 45

Arg Lys Lys Lys Lys Asp Ile Arg Asp Tyr Asn Asp Ala Asp Met Ala  
50 55 60

Arg Leu Leu Glu Gln Trp Glu Lys Asp Asp Asp Ile Glu Glu Gly Asp  
65 70 75 80

Leu Pro Glu His Lys Arg Pro Ser Ala Pro Val Asp Phe Ser Lys Ile  
85 90 95

Asp Pro Ser Lys Pro Glu Ser Ile Leu Lys Met Thr Lys Lys Gly Lys  
100 105 110

Thr Leu Met Met Phe Val Thr Val Ser Gly Ser Pro Thr Glu Lys Glu  
115 120 125

Thr Glu Glu Ile Thr Ser Leu Trp Gln Gly Ser Leu Phe Asn Ala Asn  
 130 135 140

Tyr Asp Val Gln Arg Phe Ile Val Gly Ser Asp Arg Ala Ile Phe Met  
 145 150 155 160

Leu Arg Asp Gly Ser Tyr Ala Trp Glu Ile Lys Asp Phe Leu Val Gly  
 165 170 175

Gln Asp Arg Cys Ala Asp Val Thr Leu Glu Gly Gln Val Tyr Pro Gly  
 180 185 190

Lys Gly Gly Gly Ser Lys Glu Lys Asn Lys Thr Lys Gln Asp Lys Gly  
 195 200 205

Lys Lys Lys Lys Glu Gly Asp Leu Lys Ser Arg Ser Ser Lys Glu Glu  
 210 215 220

Asn Arg Ala Gly Asn Lys Arg Glu Asp Leu  
 225 230

<210> 1323

<211> 15

<212> PRT

<213> Homo sapiens

<400> 1323

Asn Ala Thr Lys Ser Gln Pro Cys Leu Ser Ser Leu Leu Phe  
 1 5 10 15

<210> 1324

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1324

Lys Tyr Xaa Lys His Pro Ser Lys Ser Phe Glu Leu Thr Leu Val Leu  
 1 5 10 15

Arg Lys Leu Ser Leu His Asn Gln Pro Pro Gly Lys Thr Glu Cys His  
 20 25 30

Leu Leu Lys Ser Lys Cys Cys Val Ile Ile Thr Leu Gln Thr Lys Trp  
 35 40 45

Arg Tyr Tyr Leu Phe Cys Lys Gln Gln Thr Lys Gln Asn Ser  
 50 55 60

<210> 1325  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 1325  
 Asn Ala Thr Lys Ser Gln Pro Cys Leu Ser Ser Leu Leu Leu Phe  
           1                  5                  10                  15

<210> 1326  
 <211> 228  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (134)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (170)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (195)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (205)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (209)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (214)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1326  
 Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val  
           1                  5                  10                  15

Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe  
                   20                  25                  30

Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His  
           35                  40                  45



Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg  
 50 55 60  
 Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu  
 65 70 75 80  
 Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Xaa Lys Arg Val Leu  
 85 90 95  
 Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro  
 100 105 110  
 Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu  
 115 120 125  
 Lys Ala His Ser Ser Xaa Val Gln Ile Leu Cys Pro Ser Trp His Pro  
 130 135 140  
 Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly  
 145 150 155 160  
 Trp Met Thr Lys Leu Gln Pro Ser Arg Xaa Pro Thr Ile Ser Ile Ala  
 165 170 175  
 Gln Trp Ser Gln Lys Glu Thr Asp His Phe Thr Asp Gln Arg Asn Lys  
 180 185 190  
 Gly Ala Xaa Leu Leu Asn Pro Gly Ala Ser Asp Arg Xaa Lys Pro Glu  
 195 200 205  
 Xaa Arg Thr Lys Lys Xaa Pro Val Asn Ser Glu Pro Gly Glu Thr Leu  
 210 215 220  
 Pro Phe Thr Asn  
 225

<210> 1327  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 1327  
 Asp Asn Phe Leu Leu Gly Val Ala Trp Phe Phe Arg Gly Arg Gly Ser  
 1 5 10 15  
 Ala His Val Gly Val Val Ser Arg Gln Lys Gln Trp Glu Glu Gly Thr  
 20 25 30  
 Ala Lys His Ala Ala Trp Asp Tyr Gly Cys Pro Gln Ser Cys Ser Phe  
 35 40 45  
 Ser Lys Gly Val Phe Cys Leu Phe Leu Arg Gln Gly His Thr Leu Ser  
 50 55 60  
 Pro Arg Met Glu Cys Ser Gly Pro Ile Leu Ala His Cys Asn Leu Glu  
 65 70 75 80

Leu Leu Gly Ser

<210> 1328  
 <211> 174  
 <212> PRT  
 <213> Homo sapiens

<400> 1328  
 Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val  
 1 5 10 15  
 Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe  
 20 25 30  
 Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His  
 35 40 45  
 Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg  
 50 55 60  
 Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu  
 65 70 75 80  
 Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu  
 85 90 95  
 Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro  
 100 105 110  
 Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu  
 115 120 125  
 Lys Ala His Ser Ser Glu Val Gln Ile Leu Cys Pro Ser Trp His Pro  
 130 135 140  
 Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly  
 145 150 155 160  
 Trp Met Thr Ser Cys Ser Leu Pro Ala Thr Pro Arg Phe Pro  
 165 170

<210> 1329  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<400> 1329  
 Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val  
 1 5 10 15  
 Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe  
 20 25 30  
 Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His  
 35 40 45

Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg  
           50                          55                          60  
 Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu  
           65                          70                          75                          80  
 Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu  
                           85                          90                          95  
 Thr His Leu Leu Gln Gln Pro Gly Lys Ala Val Leu Pro Leu Ala Pro  
                           100                          105                          110  
 Ala Gln Ser  
           115

<210> 1330  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (54)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (56)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1330  
 Met Glu Asn Gln Met Leu Thr Cys Val Ala Ile Phe Val Leu Phe Cys  
           1                          5                          10                          15  
 Phe Val Leu Phe Leu Arg Gln Gly Leu Ala Leu Ser Pro Arg Leu Glu  
                           20                          25                          30  
 Cys Ser Gly Met Ile Arg Ala Tyr Cys Ser Leu Thr Leu Asp Phe Leu  
           35                          40                          45  
 Gly Ser Ser Asn Pro Xaa Thr Xaa Ala Pro Lys  
           50                          55

<210> 1331  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 1331  
 Met Glu Asn Gln Met Leu Thr Cys Val Ala Ile Phe Val Leu Phe Cys  
           1                          5                          10                          15  
 Phe Val Leu Phe Leu Arg Gln Gly Leu Ala Leu Ser Pro Arg Leu Glu  
                           20                          25                          30

Cys Ser Gly Met Ile Arg Ala Tyr Cys Ser Leu Thr Leu Asp Phe Leu  
                   35                  40                  45

Gly Ser Ser Asn Pro Pro Thr Ser Ala Pro Lys  
           50                  55

&lt;210&gt; 1332

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1332

Gly Ser Phe Leu Ser Pro Trp Gly Pro Ile Leu Trp Gly Leu Gly Ala  
           1                  5                  10                  15

Gly Val Leu Met Gly Asp Ala Leu Gln Gly Arg Glu Gly Arg Met Gln  
                   20                  25                  30

Ala Thr Val Gly Ala Gly Pro Glu Gly Ser Glu Thr Val Ala Val Gln  
                   35                  40                  45

Val Cys Val Ile Arg Glu Ala Val Val Gly Glu Glu Val Ser Asp Cys  
           50                  55                  60

Val Ala Pro Leu Cys Gly Val Gly Gly Gln Gly Gly Ala Ala Lys Glu  
           65                  70                  75                  80

Ala Arg Lys Met Gly Gly Gly Trp Asp Gly Leu Gly Ser His Ile His  
                   85                  90                  95

Val Leu Asp Phe  
                   100

&lt;210&gt; 1333

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1333

Met Leu Ile Leu Gly Ser Met Phe Ser Leu Val Glu Pro Val Leu Thr  
           1                  5                  10                  15

Ile Ala Ala Ala Leu Ser Val Gln Ser Pro Phe Thr Arg Ser Ala Gln  
                   20                  25                  30

Ser Ser Pro Glu Cys Ala Ala Ala Arg Arg Pro Leu Glu Ser Asp Gln  
           35                  40                  45

Gly Asp Pro Phe Thr Leu Phe Asn Val Phe Asn Ala Trp Val Gln Val  
           50                  55                  60

Lys Ser Glu Arg Ser Arg Asn Ser Arg Lys Trp Cys Arg Arg Arg Gly  
           65                  70                  75                  80

Ile Glu Glu His Arg Leu Tyr Glu Met Ala Asn Phe Gly Ala Ser Ser  
                   85                  90                  95

Arg Thr Val

<210> 1334  
 <211> 163  
 <212> PRT  
 <213> Homo sapiens

<400> 1334  
 Ala Leu Ala Arg Ala Ser Arg Thr Asp Asp Leu His Pro Leu Ala Leu  
           1                  5                  10                  15  
 Ala Gly Ala Thr His Arg Pro Cys Pro Glu Asp Gln Glu Pro Lys Ala  
                   20                  25                  30  
 Gly Arg Ala Trp Ser Ala Thr Ser Phe Cys Leu Pro Val Pro Cys Gly  
                   35                  40                  45  
 Val Ser Val Leu Leu Ser Leu Ser Leu Phe Leu Ser Leu Cys Gly Tyr  
           50                  55                  60  
 Val Ser Cys Tyr Phe Ser Leu Ser Cys Ser Tyr Leu Cys Leu Gly His  
           65                  70                  75                  80  
 Leu His Pro Val Val Thr Gln Gly Cys His Thr Leu Gly Phe Ser Gly  
                   85                  90                  95  
 Gly Asp Ser Thr Gly Ala Thr Cys Leu His Pro Arg Leu Ala Val Ser  
                   100                  105                  110  
 Ala Cys Gln Ser Pro Cys Leu Ser Leu Cys Leu Ser Leu Cys Leu Ser  
           115                  120                  125  
 His Trp Gln Gly Cys Gly Val Lys Thr Asp Leu Cys Ile Phe Ile Asn  
           130                  135                  140  
 Leu Gly Gly Leu Pro Gly Gly Gly Lys Thr Gly Phe Ser Lys Gly Gln  
           145                  150                  155                  160  
 Glu Arg Thr

<210> 1335  
 <211> 552  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (142)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1335  
 Met Leu Ile Leu Gly Ser Met Phe Ser Leu Val Glu Pro Val Leu Thr  
           1                  5                  10                  15

Ile Ala Ala Ala Leu Ser Val Gln Ser Pro Phe Thr Arg Ser Ala Gln  
 20 25 30  
 Ser Ser Pro Glu Cys Ala Ala Ala Arg Arg Pro Leu Glu Ser Asp Gln  
 35 40 45  
 Gly Asp Pro Phe Thr Leu Phe Asn Val Phe Asn Ala Trp Val Gln Val  
 50 55 60  
 Lys Ser Glu Arg Ser Arg Asn Ser Arg Lys Trp Cys Arg Arg Arg Gly  
 65 70 75 80  
 Ile Glu Glu His Arg Leu Tyr Glu Met Ala Asn Leu Arg Arg Gln Phe  
 85 90 95  
 Lys Glu Leu Leu Glu Asp His Gly Leu Leu Ala Gly Ala Gln Ala Ala  
 100 105 110  
 Gln Val Gly Asp Ser Tyr Ser Arg Leu Gln Gln Arg Arg Glu Arg Arg  
 115 120 125  
 Ala Leu His Gln Leu Lys Arg Gln His Glu Glu Gly Ala Xaa Cys Arg  
 130 135 140  
 Arg Lys Val Leu Arg Leu Gln Glu Glu Gln Asp Gly Gly Ser Ser Asp  
 145 150 155 160  
 Glu Asp Arg Ala Gly Pro Ala Pro Pro Gly Ala Ser Asp Gly Val Asp  
 165 170 175  
 Ile Gln Asp Val Lys Phe Lys Leu Arg His Asp Leu Ala Gln Leu Gln  
 180 185 190  
 Ala Ala Ala Ser Ser Ala Gln Asp Leu Ser Arg Glu Gln Leu Ala Leu  
 195 200 205  
 Leu Lys Leu Val Leu Gly Arg Gly Leu Tyr Pro Gln Leu Ala Val Pro  
 210 215 220  
 Asp Ala Phe Asn Ser Ser Arg Lys Asp Ser Asp Gln Ile Phe His Thr  
 225 230 235 240  
 Gln Ala Lys Gln Gly Ala Val Leu His Pro Thr Cys Val Phe Ala Gly  
 245 250 255  
 Ser Pro Glu Val Leu His Ala Gln Glu Leu Glu Ala Ser Asn Cys Asp  
 260 265 270  
 Gly Ser Arg Asp Asp Lys Asp Lys Met Ser Ser Lys His Gln Leu Leu  
 275 280 285  
 Ser Phe Val Ser Leu Leu Glu Thr Asn Lys Pro Tyr Leu Val Asn Cys  
 290 295 300  
 Val Arg Ile Pro Ala Leu Gln Ser Leu Leu Leu Phe Ser Arg Ser Leu  
 305 310 315 320  
 Asp Thr Asn Gly Asp Cys Ser Arg Leu Val Ala Asp Gly Trp Leu Glu  
 325 330 335

Leu Gln Leu Ala Asp Ser Glu Ser Ala Ile Arg Leu Leu Ala Ala Ser  
 340 345 350  
 Leu Arg Leu Arg Ala Arg Trp Glu Ser Ala Leu Asp Arg Gln Leu Ala  
 355 360 365  
 His Gln Ala Gln Gln Gln Leu Glu Glu Glu Glu Asp Thr Pro Val  
 370 375 380  
 Ser Pro Lys Glu Val Ala Thr Leu Ser Lys Glu Leu Leu Gln Phe Thr  
 385 390 395 400  
 Ala Ser Lys Ile Pro Tyr Ser Leu Arg Arg Leu Thr Gly Leu Glu Val  
 405 410 415  
 Gln Asn Met Tyr Val Gly Pro Gln Thr Ile Pro Ala Thr Pro His Leu  
 420 425 430  
 Pro Gly Leu Phe Gly Ser Ser Thr Leu Ser Pro His Pro Thr Lys Gly  
 435 440 445  
 Gly Tyr Ala Val Thr Asp Phe Leu Thr Tyr Asn Cys Leu Thr Asn Asp  
 450 455 460  
 Thr Asp Leu Tyr Ser Asp Cys Leu Arg Thr Phe Trp Thr Cys Pro His  
 465 470 475 480  
 Cys Gly Leu His Ala Pro Leu Thr Pro Leu Glu Arg Ile Ala His Glu  
 485 490 495  
 Asn Thr Cys Pro Gln Ala Pro Gln Asp Gly Pro Pro Gly Ala Glu Glu  
 500 505 510  
 Ala Ala Leu Glu Thr Leu Gln Lys Thr Ser Val Leu Gln Arg Pro Tyr  
 515 520 525  
 His Cys Glu Ala Cys Gly Lys Asp Phe Leu Phe Thr Pro Thr Glu Val  
 530 535 540  
 Leu Arg His Arg Lys Gln His Val  
 545 550

<210> 1336  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 1336  
 Met Ser Leu Tyr Gly Thr Arg Trp Arg Ile Ser Trp Pro His Trp Arg  
 1 5 10 15  
 Arg Val Val Leu Val Ser Leu Leu Ser Ser Ser Gly Gly Gln Ile Ser  
 20 25 30  
 Pro Ser Leu Ser His His Leu Pro Cys Ser Asp Phe Phe Glu Leu Glu  
 35 40 45

Thr Ser Leu Ala Leu Phe Trp Leu Thr Thr Leu Val Pro Ser Ile Thr  
 50 55 60

Asn Ile Thr Arg Val Phe Thr Thr Leu Leu Arg Thr Leu Met  
 65 70 75

&lt;210&gt; 1337

&lt;211&gt; 78

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1337

Met Ser Leu Tyr Gly Thr Arg Trp Arg Ile Ser Trp Pro His Trp Arg  
 1 5 10 15

Arg Val Val Leu Val Ser Leu Leu Ser Ser Ser Gly Gly Gln Ile Ser  
 20 25 30

Pro Ser Leu Ser His His Leu Pro Cys Ser Asp Phe Phe Glu Leu Glu  
 35 40 45

Thr Ser Leu Ala Leu Phe Trp Leu Thr Thr Leu Val Pro Ser Ile Thr  
 50 55 60

Asn Ile Thr Arg Val Phe Thr Thr Leu Leu Arg Thr Leu Met  
 65 70 75

&lt;210&gt; 1338

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1338

Met Gly Cys Leu Trp Gly Leu Ala Leu Pro Leu Phe Phe Phe Cys Trp  
 1 5 10 15

Glu Val Gly Val Ser Gly Ser Ser Ala Gly Pro Ser Thr Arg Arg Ala  
 20 25 30

Asp Thr Ala Met Thr Thr Asp Asp Thr Glu Val Pro Ala Met Thr Leu  
 35 40 45

Ala Pro Gly His Ala Ala Leu Glu Thr Gln Thr Leu Ser Ala Glu Thr  
 50 55 60

Ser Ser Arg Ala Ser Thr Pro Ala Gly Pro Ile Pro Glu Ala Glu Thr  
 65 70 75 80

Arg Gly Ala Lys Arg Ile Ser Pro Ala Arg Glu Thr Arg Ser Phe Thr  
 85 90 95

Lys Thr Ser Pro Asn Phe Met Val Leu Ile Ala Thr Ser Val Glu Thr  
 100 105 110

Ser Ala Ala Ser Gly Ser Pro Glu Gly Ala Arg Met Thr Thr Val Gln  
 115 120 125



Thr Ile Thr Gly Ser Asp Pro Arg Lys Pro Ser Leu Thr Pro Phe Ala  
 130 135 140

Pro Met Thr Ala Leu Lys Arg Gln Arg His Ser Gln Trp Thr Tyr  
 145 150 155

<210> 1339

<211> 149

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1339

Met Gly Cys Leu Trp Gly Leu Ala Leu Pro Leu Phe Phe Phe Cys Trp  
 1 5 10 15

Glu Val Gly Val Ser Gly Ser Ser Ala Gly Pro Ser Thr Arg Arg Ala  
 20 25 30

Asp Thr Ala Met Thr Thr Asp Asp Thr Glu Val Pro Ala Met Thr Leu  
 35 40 45

Ala Pro Gly His Ala Ala Leu Glu Thr Gln Thr Leu Ser Ala Glu Thr  
 50 55 60

Ser Ser Arg Ala Ser Thr Pro Ala Gly Pro Ile Pro Glu Ala Glu Thr  
 65 70 75 80

Arg Gly Ala Lys Arg Ile Ser Pro Ala Arg Glu Thr Arg Ser Phe Thr  
 85 90 95

Lys Thr Ser Pro Asn Phe Met Val Leu Ile Ala Thr Ser Val Glu Thr  
 100 105 110

Ser Xaa Ala Ser Gly Ser Pro Glu Gly Ala Xaa Met Thr Thr Val Gln  
 115 120 125

Thr Ile Thr Gly Ser Asp Pro Arg Glu Ala Ile Phe Asp Thr Leu Xaa  
 130 135 140

Thr Asp Asp Ser Ser  
 145

&lt;210&gt; 1340

&lt;211&gt; 595

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1340

Met Gly Cys Leu Trp Gly Leu Ala Leu Pro Leu Phe Phe Phe Cys Trp  
 1 5 10 15

Glu Val Gly Val Ser Gly Ser Ser Ala Gly Pro Ser Thr Arg Arg Ala  
 20 25 30

Asp Thr Ala Met Thr Thr Asp Asp Thr Glu Val Pro Ala Met Thr Leu  
 35 40 45

Ala Pro Gly His Ala Ala Leu Glu Thr Gln Thr Leu Ser Ala Glu Thr  
 50 55 60

Ser Ser Arg Ala Ser Thr Pro Ala Gly Pro Ile Pro Glu Ala Glu Thr  
 65 70 75 80

Arg Gly Ala Lys Arg Ile Ser Pro Ala Arg Glu Thr Arg Ser Phe Thr  
 85 90 95

Lys Thr Ser Pro Asn Phe Met Val Leu Ile Ala Thr Ser Val Glu Thr  
 100 105 110

Ser Ala Ala Ser Gly Ser Pro Glu Gly Ala Arg Met Thr Thr Val Gln  
 115 120 125

Thr Ile Thr Gly Ser Asp Pro Arg Glu Ala Ile Phe Asp Thr Leu Cys  
 130 135 140

Thr Asp Asp Ser Ser Glu Glu Ala Lys Thr Leu Thr Met Asp Ile Leu  
 145 150 155 160

Thr Leu Ala His Thr Ser Thr Glu Ala Lys Gly Leu Ser Ser Glu Ser  
 165 170 175

Ser Ala Ser Ser Asp Gly Pro His Pro Val Ile Thr Pro Ser Arg Ala  
 180 185 190

Ser Glu Ser Ser Ala Ser Ser Asp Gly Pro His Pro Val Ile Thr Pro  
 195 200 205

Ser Arg Ala Ser Glu Ser Ser Ala Ser Ser Asp Gly Pro His Pro Val  
 210 215 220

Ile Thr Pro Ser Arg Ala Ser Glu Ser Ser Ala Ser Ser Asp Gly Pro  
 225 230 235 240

His Pro Val Ile Thr Pro Ser Arg Ala Ser Glu Ser Ser Ala Ser Ser  
 245 250 255

Asp Gly Pro His Pro Val Ile Thr Pro Ser Arg Ala Ser Glu Ser Ser  
 260 265 270

Ala Ser Ser Asp Gly Pro His Pro Val Ile Thr Pro Ser Trp Ser Pro  
 790

275                      280                      285  
 Gly Ser Asp Val Thr Leu Leu Ala Glu Ala Leu Val Ser Val Thr Asn  
 290                      295                      300  
 Ile Glu Val Ile Asn Cys Ser Ile Thr Glu Ile Glu Thr Thr Thr Ser  
 305                      310                      315                      320  
 Ser Ile Pro Gly Ala Ser Asp Thr Asp Leu Ile Pro Thr Glu Gly Val  
 325                      330                      335  
 Lys Ala Ser Ser Thr Ser Asp Pro Pro Ala Leu Pro Asp Ser Thr Glu  
 340                      345                      350  
 Ala Lys Pro His Ile Thr Glu Val Thr Ala Ser Ala Glu Thr Leu Ser  
 355                      360                      365  
 Thr Ala Gly Thr Thr Glu Ser Ala Ala Pro Asp Ala Thr Val Gly Thr  
 370                      375                      380  
 Pro Leu Pro Thr Asn Ser Ala Thr Glu Arg Glu Val Thr Ala Pro Gly  
 385                      390                      395                      400  
 Ala Thr Thr Leu Ser Gly Ala Leu Val Thr Val Ser Arg Asn Pro Leu  
 405                      410                      415  
 Glu Glu Thr Ser Ala Leu Ser Val Glu Thr Pro Ser Tyr Val Lys Val  
 420                      425                      430  
 Ser Gly Ala Ala Pro Val Ser Ile Glu Ala Gly Ser Ala Val Gly Lys  
 435                      440                      445  
 Thr Thr Ser Phe Ala Gly Ser Ser Ala Ser Ser Tyr Ser Pro Ser Glu  
 450                      455                      460  
 Ala Ala Leu Lys Asn Phe Thr Pro Ser Glu Thr Pro Thr Met Asp Ile  
 465                      470                      475                      480  
 Ala Thr Lys Gly Pro Phe Pro Thr Ser Arg Asp Pro Leu Pro Ser Val  
 485                      490                      495  
 Pro Pro Thr Thr Thr Asn Ser Ser Arg Gly Thr Asn Ser Thr Leu Ala  
 500                      505                      510  
 Lys Ile Thr Thr Ser Ala Lys Thr Thr Met Lys Pro Pro Thr Ala Thr  
 515                      520                      525  
 Pro Thr Thr Ala Arg Thr Arg Pro Thr Thr Asp Val Ser Ala Gly Glu  
 530                      535                      540  
 Asn Gly Gly Phe Leu Leu Leu Arg Leu Ser Val Ala Ser Pro Glu Asp  
 545                      550                      555                      560  
 Leu Thr Asp Pro Arg Val Ala Glu Arg Leu Met Gln Gln Leu His Arg  
 565                      570                      575  
 Glu Leu His Ala His Ala Pro His Phe Gln Val Ser Leu Leu Arg Val  
 580                      585                      590  
 Arg Arg Gly

595

<210> 1341  
 <211> 114  
 <212> PRT  
 <213> Homo sapiens

<400> 1341  
 Met Trp Asn Pro Trp Ile Ala Met Cys Leu Leu Gly Leu Ser Tyr Ser  
   1                  5                  10                  15  
 Leu Leu Ala Cys Ala Leu Trp Pro Met Val Ala Phe Val Val Pro Glu  
                   20                  25                  30  
 His Gln Leu Gly Thr Ala Tyr Gly Phe Met Gln Ser Ile Gln Asn Leu  
                   35                  40                  45  
 Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly Met Ile Leu Asp Ser Arg  
                   50                  55                  60  
 Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile Ala Cys Val Ser Leu Ser  
                   65                  70                  75                  80  
 Leu Leu Ser Val Val Leu Leu Tyr Leu Val Asn Arg Ala Gln Gly Gly  
                   85                  90                  95  
 Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu Glu Ile Lys Phe Ser His  
                   100                  105                  110  
 Thr Glu

<210> 1342  
 <211> 114  
 <212> PRT  
 <213> Homo sapiens

<400> 1342  
 Met Trp Asn Pro Trp Ile Ala Met Cys Leu Leu Gly Leu Ser Tyr Ser  
   1                  5                  10                  15  
 Leu Leu Ala Cys Ala Leu Trp Pro Met Val Ala Phe Val Val Pro Glu  
                   20                  25                  30  
 His Gln Leu Gly Thr Ala Tyr Gly Phe Met Gln Ser Ile Gln Asn Leu  
                   35                  40                  45  
 Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly Met Ile Leu Asp Ser Arg  
                   50                  55                  60  
 Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile Ala Cys Val Ser Leu Ser  
                   65                  70                  75                  80  
 Leu Leu Ser Val Val Leu Leu Tyr Leu Val Asn Arg Ala Gln Gly Gly  
                   85                  90                  95

Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu Glu Ile Lys Phe Ser His  
 100 105 110

Thr Glu

<210> 1343  
 <211> 114  
 <212> PRT  
 <213> Homo. sapiens

<400> 1343  
 Met Trp Asn Pro Trp Ile Ala Met Cys Leu Leu Gly Leu Ser Tyr Ser  
 1 5 10 15  
 Leu Leu Ala Cys Ala Leu Trp Pro Met Val Ala Phe Val Val Pro Glu  
 20 25 30  
 His Gln Leu Gly Thr Ala Tyr Gly Phe Met Gln Ser Ile Gln Asn Leu  
 35 40 45  
 Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly Met Ile Leu Asp Ser Arg  
 50 55 60  
 Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile Ala Cys Val Ser Leu Ser  
 65 70 75 80  
 Leu Leu Ser Val Val Leu Leu Tyr Leu Val Asn Arg Ala Gln Gly Gly  
 85 90 95  
 Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu Glu Ile Lys Phe Ser His  
 100 105 110

Thr Glu

<210> 1344  
 <211> 465  
 <212> PRT  
 <213> Homo sapiens

<400> 1344  
 Met Glu Glu Glu Asp Glu Glu Ala Arg Ala Leu Leu Ala Gly Gly Pro  
 1 5 10 15  
 Asp Glu Ala Asp Arg Gly Ala Pro Ala Ala Pro Gly Ala Leu Pro Ala  
 20 25 30  
 Leu Cys Asp Pro Ser Arg Leu Ala His Arg Leu Leu Val Leu Leu Leu  
 35 40 45  
 Met Cys Phe Leu Gly Phe Gly Ser Tyr Phe Cys Tyr Asp Asn Pro Ala  
 50 55 60  
 Ala Leu Gln Thr Gln Val Lys Arg Asp Met Gln Val Asn Thr Thr Lys  
 65 70 75 80

Phe Met Leu Leu Tyr Ala Trp Tyr Ser Trp Pro Asn Val Val Leu Cys  
 85 90 95  
 Phe Phe Gly Gly Phe Leu Ile Asp Arg Val Phe Gly Ile Arg Trp Gly  
 100 105 110  
 Thr Ile Ile Phe Ser Cys Phe Val Cys Ile Gly Gln Val Val Phe Ala  
 115 120 125  
 Leu Gly Gly Ile Phe Asn Ala Phe Trp Leu Met Glu Phe Gly Arg Phe  
 130 135 140  
 Val Phe Gly Ile Gly Gly Glu Ser Leu Ala Val Ala Gln Asn Thr Tyr  
 145 150 155 160  
 Ala Val Ser Trp Phe Lys Gly Lys Glu Leu Asn Leu Val Phe Gly Leu  
 165 170 175  
 Gln Leu Ser Met Ala Arg Ile Gly Ser Thr Val Asn Met Asn Leu Met  
 180 185 190  
 Gly Trp Leu Tyr Ser Lys Ile Glu Ala Leu Leu Gly Ser Ala Gly His  
 195 200 205  
 Thr Thr Leu Gly Ile Thr Leu Met Ile Gly Gly Ile Thr Cys Ile Leu  
 210 215 220  
 Ser Leu Ile Cys Ala Leu Ala Leu Ala Tyr Leu Asp Gln Arg Ala Glu  
 225 230 235 240  
 Arg Ile Leu His Lys Glu Gln Gly Lys Thr Gly Glu Val Ile Lys Leu  
 245 250 255  
 Thr Asp Val Lys Asp Phe Ser Leu Pro Leu Trp Leu Ile Phe Ile Ile  
 260 265 270  
 Cys Val Cys Tyr Tyr Val Ala Val Phe Pro Phe Ile Gly Leu Gly Lys  
 275 280 285  
 Val Phe Phe Thr Glu Lys Phe Gly Phe Ser Ser Gln Ala Ala Ser Ala  
 290 295 300  
 Ile Asn Ser Val Val Tyr Val Ile Ser Ala Pro Met Ser Pro Val Phe  
 305 310 315 320  
 Gly Leu Leu Val Asp Lys Thr Gly Lys Asn Ile Ile Trp Val Leu Cys  
 325 330 335  
 Ala Val Ala Ala Thr Leu Val Ser His Met Met Leu Ala Phe Thr Met  
 340 345 350  
 Trp Asn Pro Trp Ile Ala Met Cys Leu Leu Gly Leu Ser Tyr Ser Leu  
 355 360 365  
 Leu Ala Cys Ala Leu Trp Pro Met Val Ala Phe Val Val Pro Glu His  
 370 375 380  
 Gln Leu Gly Thr Ala Tyr Gly Phe Met Gln Ser Ile Gln Asn Leu Gly  
 385 390 395 400

Glu  
465

Ile Trp Leu

Leu Val Ser Glu Cys Leu Ala Leu Pro Gln Leu Gly Ile Gln Tyr Leu

50 55 60

Ala Leu Ser Gly Gly Ile Ile Trp Leu  
65 70

<210> 1347  
<211> 83  
<212> PRT  
<213> Homo sapiens

<400> 1347  
Met Gly Leu Lys Ala Leu Pro Glu Pro Phe Met Ser Leu Val Ser His  
1 5 10 15  
Leu Leu Arg Thr Phe Phe Leu Val Trp Phe Val Gly Leu Pro Val Ala  
20 25 30  
Ile Leu Gly Asn Leu Leu Glu Cys Tyr Ala Asn Val Phe Thr Gly Asn  
35 40 45  
Gly Gly Gly Pro Glu Pro Trp Gly Gly His Leu Val Ser Glu Cys Leu  
50 55 60  
Ala Leu Pro Gln Leu Gly Ile Gln Tyr Leu Ala Leu Ser Gly Gly Ile  
65 70 75 80  
Ile Trp Leu

<210> 1348  
<211> 111  
<212> PRT  
<213> Homo sapiens

<400> 1348  
Met Phe Leu Ala Arg Val Pro Phe Leu Phe Thr Ile Val Pro Phe Ser  
1 5 10 15  
Val Leu Arg Ser Met Leu Ser Lys Val Val Arg Ser Thr Glu Gln Gly  
20 25 30  
Thr Leu Phe Ala Cys Ile Ala Phe Leu Glu Thr Leu Gly Gly Val Thr  
35 40 45  
Ala Val Ser Thr Phe Asn Gly Ile Tyr Ser Ala Thr Val Ala Trp Tyr  
50 55 60  
Pro Gly Phe Thr Phe Leu Leu Ser Ala Gly Leu Leu Leu Pro Ala  
65 70 75 80  
Ile Ser Leu Cys Val Val Lys Cys Thr Ser Trp Asn Glu Gly Ser Tyr  
85 90 95  
Glu Leu Leu Ile Gln Glu Glu Ser Ser Glu Asp Ala Ser Asp Arg  
100 105 110



<210> 1349  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 1349  
 Met Phe Leu Ala Arg Val Pro Phe Leu Phe Thr Ile Val Pro Phe Ser  
 1 5 10 15  
 Val Leu Arg Ser Met Leu Ser Lys Val Val Arg Ser Thr Glu Gln Gly  
 20 25 30  
 Thr Leu Phe Ala Cys Ile Ala Phe Leu Glu Thr Leu Gly Gly Val Thr  
 35 40 45  
 Ala Val Ser Thr Phe Asn Gly Ile Tyr Ser Ala Thr Val Ala Trp Tyr  
 50 55 60  
 Pro Gly Phe Thr Phe Leu Leu Ser Ala Gly Leu Leu Leu Leu Pro Ala  
 65 70 75 80  
 Ile Ser Leu Cys Val Val Lys Cys Thr Ser Trp Asn Glu Gly Ser Tyr  
 85 90 95  
 Glu Leu Leu Ile Gln Glu Glu Ser Ser Glu Asp Ala Ser Asp Arg  
 100 105 110

<210> 1350  
 <211> 230  
 <212> PRT  
 <213> Homo sapiens

<400> 1350  
 Met Ser Cys Ser Glu Gly Phe Lys Asn Leu Phe Tyr Arg Thr Tyr Met  
 1 5 10 15  
 Leu Phe Lys Asn Ala Ser Gly Lys Arg Arg Phe Leu Leu Cys Leu Leu  
 20 25 30  
 Leu Phe Thr Val Ile Thr Tyr Phe Phe Val Val Ile Gly Ile Ala Pro  
 35 40 45  
 Ile Phe Ile Leu Tyr Glu Leu Asp Ser Pro Leu Cys Trp Asn Glu Val  
 50 55 60  
 Phe Ile Gly Tyr Gly Ser Ala Leu Gly Ser Ala Ser Phe Leu Thr Ser  
 65 70 75 80  
 Phe Leu Gly Ile Trp Leu Phe Ser Tyr Cys Met Glu Asp Ile His Met  
 85 90 95  
 Ala Phe Ile Gly Ile Phe Thr Thr Met Thr Gly Met Ala Met Thr Ala  
 100 105 110  
 Phe Ala Ser Thr Thr Leu Met Met Phe Leu Ala Arg Val Pro Phe Leu  
 115 120 125

Phe Thr Ile Val Pro Phe Ser Val Leu Arg Ser Met Leu Ser Lys Val  
 130 135 140

Val Arg Ser Thr Glu Gln Gly Thr Leu Phe Ala Cys Ile Ala Phe Leu  
 145 150 155 160

Glu Thr Leu Gly Gly Val Thr Ala Val Ser Thr Phe Asn Gly Ile Tyr  
 165 170 175

Ser Ala Thr Val Ala Trp Tyr Pro Gly Phe Thr Phe Leu Leu Ser Ala  
 180 185 190

Gly Leu Leu Leu Leu Pro Ala Ile Ser Leu Cys Val Val Lys Cys Thr  
 195 200 205

Ser Trp Asn Glu Gly Ser Tyr Glu Leu Leu Ile Gln Glu Glu Ser Ser  
 210 215 220

Glu Asp Ala Ser Asp Arg  
 225 230

<210> 1351

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1351

Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu Lys  
 1 5 10 15

Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Ile Leu Ser  
 20 25 30

Ile Gly Leu Ala Ala Ala Tyr Tyr Ser Gly Asp Ser Leu Gly Trp Lys  
 35 40 45

Leu Phe Tyr Val Thr Gly Cys Leu Phe Val Ala Val Gln Asn Leu Glu  
 50 55 60

Asp Trp Glu Glu Ala Ile Phe Asp Lys Ser Thr Gly Lys Val Val Leu  
 65 70 75 80

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<210> 1352
<211> 124
<212> PRT
<213> Homo sapiens
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<210> 1353
<211> 145
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (123)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (135)  
<223> Xaa equals any of the naturally occurring L-amino acids
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&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (137)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1353

Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu Lys  
 1 5 10 15

Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Ile Leu Ser  
 20 25 30

Ile Gly Leu Ala Ala Ala Tyr Tyr Ser Gly Asp Ser Leu Gly Trp Lys  
 35 40 45

Leu Phe Tyr Val Thr Gly Cys Leu Phe Val Ala Val Gln Asn Leu Glu  
 50 55 60

Asp Trp Glu Glu Ala Ile Phe Asp Lys Ser Thr Gly Lys Val Val Leu  
 65 70 75 80

Lys Thr Phe Ser Leu Tyr Lys Lys Leu Leu Thr Leu Phe Arg Ala Gly  
 85 90 95

His Asp Gln Val Val Val Leu Leu His Asp Val Arg Asp Val Ser Val  
 100 105 110

Glu Glu Glu Lys Val Arg Tyr Phe Gly Lys Xaa Tyr Met Val Val Leu  
 115 120 125

Arg Leu Ala Thr Gly Phe Xaa His Xaa Leu Thr Gln Ser Ala Asp Met  
 130 135 140

Gly  
 145

&lt;210&gt; 1354

&lt;211&gt; 89

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1354

Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu  
 1 5 10 15

Leu Leu Leu Leu Leu Leu Val Xaa Leu Leu Gln Ala Gly Leu Asn Thr  
 20 25 30

800

Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln  
                   35                  40                  45  
 Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly  
                   50                  55                  60  
 Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Xaa Lys Glu Lys Ala Trp  
                   65                  70                  75                  80  
 Arg Ala Val Val Val Gln Met Ala Gln  
                                   85

<210> 1355  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 1355  
 Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu  
   1                  5                  10                  15  
 Leu Leu Leu Leu Leu Val Leu Leu Leu Gln Ala Gly Leu Asn Thr  
                   20                  25                  30  
 Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln  
                   35                  40                  45  
 Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly  
                   50                  55                  60  
 Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Asp Lys Glu Lys Ala Trp  
                   65                  70                  75                  80  
 Arg Ala Val Val Val Gln Met Ala Gln  
                                   85

<210> 1356  
 <211> 419  
 <212> PRT  
 <213> Homo sapiens

<400> 1356  
 Met Asn Asn Gln Lys Gln Gln Lys Pro Thr Leu Ser Gly Gln Arg Phe  
   1                  5                  10                  15  
 Lys Thr Arg Lys Arg Asp Glu Lys Glu Arg Phe Asp Pro Thr Gln Phe  
                   20                  25                  30  
 Gln Asp Cys Ile Ile Gln Gly Leu Thr Glu Thr Gly Thr Asp Leu Glu  
                   35                  40                  45  
 Ala Val Ala Lys Phe Leu Asp Ala Ser Gly Ala Lys Leu Asp Tyr Arg  
                   50                  55                  60  
 Arg Tyr Ala Glu Thr Leu Phe Asp Ile Leu Val Ala Gly Gly Met Leu  
                                   801

65	70	75	80
Ala Pro Gly Gly Thr Leu Ala Asp Asp Met Met Arg Thr Asp Val Cys	85	90	95
Val Phe Ala Ala Gln Glu Asp Leu Glu Thr Met Gln Ala Phe Ala Gln	100	105	110
Val Phe Asn Lys Leu Ile Arg Arg Tyr Lys Tyr Leu Glu Lys Gly Phe	115	120	125
Glu Asp Glu Val Lys Lys Leu Leu Leu Phe Leu Lys Gly Phe Ser Glu	130	135	140
Ser Glu Arg Asn Lys Leu Ala Met Leu Thr Gly Val Leu Leu Ala Asn	145	150	155
Gly Thr Leu Asn Ala Ser Ile Leu Asn Ser Leu Tyr Asn Glu Asn Leu	165	170	175
Val Lys Glu Gly Val Ser Ala Ala Phe Ala Val Lys Leu Phe Lys Ser	180	185	190
Trp Ile Asn Glu Lys Asp Ile Asn Ala Val Ala Ala Ser Leu Arg Lys	195	200	205
Val Ser Met Asp Asn Arg Leu Met Glu Leu Phe Pro Ala Asn Lys Gln	210	215	220
Ser Val Glu His Phe Thr Lys Tyr Phe Thr Glu Ala Gly Leu Lys Glu	225	230	235
Leu Ser Glu Tyr Val Arg Asn Gln Gln Thr Ile Gly Ala Arg Lys Glu	245	250	255
Leu Gln Lys Glu Leu Gln Glu Gln Met Ser Arg Gly Asp Pro Phe Lys	260	265	270
Asp Ile Ile Leu Tyr Val Lys Glu Glu Met Lys Lys Asn Asn Ile Pro	275	280	285
Glu Pro Val Val Ile Gly Ile Val Trp Ser Ser Val Met Ser Thr Val	290	295	300
Glu Trp Asn Lys Lys Glu Glu Leu Val Ala Glu Gln Ala Ile Lys His	305	310	315
Leu Lys Gln Tyr Ser Pro Leu Leu Ala Ala Phe Thr Thr Gln Gly Gln	325	330	335
Ser Glu Leu Thr Leu Leu Leu Lys Ile Gln Glu Tyr Cys Tyr Asp Asn	340	345	350
Ile His Phe Met Lys Ala Phe Gln Lys Ile Val Val Leu Phe Tyr Lys	355	360	365
Ala Glu Val Leu Ser Glu Glu Pro Ile Leu Lys Trp Tyr Lys Asp Ala	370	375	380
His Val Ala Lys Gly Lys Ser Val Phe Leu Glu Gln Met Lys Lys Phe			

385	390	395	400
Val Glu Trp Leu Lys Asn Ala Glu Glu Glu Ser Glu Ser Glu Ala Glu			
405	410	415	

Glu Gly Asp

<210> 1357  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 1357  
 Thr Ile Ala Cys Met Leu Thr Phe Cys Phe Val Leu Phe Cys Phe Val  
 1 5 10 15

Leu His Phe

<210> 1358  
 <211> 857  
 <212> PRT  
 <213> Homo sapiens

<400> 1358  
 Met Ser Tyr Tyr Met Ala Asp Arg Lys His Arg Lys Ala Phe Leu Glu  
 1 5 10 15

Ala Arg Gln Ser Leu Glu Val Lys Met Asn Leu Glu Glu Gln Ser Gln  
 20 25 30

Gln Gln Glu Asn Leu Met Leu Ser Ile Leu Pro Lys His Val Ala Asp  
 35 40 45

Glu Met Leu Lys Asp Met Lys Lys Asp Glu Ser Gln Lys Asp Gln Gln  
 50 55 60

Gln Phe Asn Thr Met Tyr Met Tyr Arg His Glu Asn Val Ser Ile Leu  
 65 70 75 80

Phe Ala Asp Ile Val Gly Phe Thr Gln Leu Ser Ser Ala Cys Ser Ala  
 85 90 95

Gln Glu Leu Val Lys Leu Leu Asn Glu Leu Phe Ala Arg Phe Asp Lys  
 100 105 110

Leu Ala Ala Lys Tyr His Gln Leu Arg Ile Lys Ile Leu Gly Asp Cys  
 115 120 125

Tyr Tyr Cys Ile Cys Gly Leu Pro Asp Tyr Arg Glu Asp His Ala Val  
 130 135 140

Cys Ser Ile Leu Met Gly Leu Ala Met Val Glu Ala Ile Ser Tyr Val  
 145 150 155 160

Arg Glu Lys Thr Lys Thr Gly Val Asp Met Arg Val Gly Val His Thr  
 165 170 175  
 Gly Thr Val Leu Gly Gly Val Leu Gly Gln Lys Arg Trp Gln Tyr Asp  
 180 185 190  
 Val Trp Ser Thr Asp Val Thr Val Ala Asn Lys Met Glu Ala Gly Gly  
 195 200 205  
 Ile Pro Gly Arg Val His Ile Ser Gln Ser Thr Met Asp Cys Leu Lys  
 210 215 220  
 Gly Glu Phe Asp Val Glu Pro Gly Asp Gly Gly Ser Arg Cys Asp Tyr  
 225 230 235 240  
 Leu Glu Glu Lys Gly Ile Glu Thr Tyr Leu Ile Ile Ala Ser Lys Pro  
 245 250 255  
 Glu Val Lys Lys Thr Ala Thr Gln Asn Gly Leu Asn Gly Ser Ala Leu  
 260 265 270  
 Pro Asn Gly Ala Pro Ala Ser Ser Lys Ser Ser Ser Pro Ala Leu Ile  
 275 280 285  
 Glu Thr Lys Glu Pro Asn Gly Ser Ala His Ser Ser Gly Ser Thr Ser  
 290 295 300  
 Glu Lys Pro Glu Glu Gln Asp Ala Gln Ala Asp Asn Pro Ser Phe Pro  
 305 310 315 320  
 Asn Pro Arg Arg Arg Leu Arg Leu Gln Asp Leu Ala Asp Arg Val Val  
 325 330 335  
 Asp Ala Ser Glu Asp Glu His Glu Leu Asn Gln Leu Leu Asn Glu Ala  
 340 345 350  
 Leu Leu Glu Arg Glu Ser Ala Gln Val Val Lys Lys Arg Asn Thr Phe  
 355 360 365  
 Leu Leu Ser Met Arg Phe Met Asp Pro Glu Met Glu Thr Arg Tyr Ser  
 370 375 380  
 Val Glu Lys Glu Lys Gln Ser Gly Ala Ala Phe Ser Cys Ser Cys Val  
 385 390 395 400  
 Val Leu Leu Cys Thr Ala Leu Val Glu Ile Leu Ile Asp Pro Trp Leu  
 405 410 415  
 Met Thr Asn Tyr Val Thr Phe Met Val Gly Glu Ile Leu Leu Leu Ile  
 420 425 430  
 Leu Thr Ile Cys Ser Leu Ala Ala Ile Phe Pro Arg Ala Phe Pro Lys  
 435 440 445  
 Lys Leu Val Ala Phe Ser Thr Trp Ile Asp Arg Thr Arg Trp Ala Arg  
 450 455 460  
 Asn Thr Trp Ala Met Leu Ala Ile Phe Ile Leu Val Met Ala Asn Val  
 465 470 475 480



Val Asp Met Val Ser His Met Val Lys Leu Thr Leu Met Leu Leu Val  
 485 490 495  
 Ala Gly Ala Val Ala Thr Ile Asn Leu Tyr Ala Trp Arg Pro Val Phe  
 500 505 510  
 Asp Glu Tyr Asp His Lys Arg Phe Arg Glu His Asp Leu Pro Met Val  
 515 520 525  
 Ala Leu Glu Gln Met Gln Gly Phe Asn Pro Gly Leu Asn Gly Thr Asp  
 530 535 540  
 Arg Leu Pro Leu Val Pro Ser Lys Tyr Ser Met Thr Val Met Val Phe  
 545 550 555 560  
 Leu Met Met Leu Ser Phe Tyr Tyr Phe Ser Arg His Val Glu Lys Leu  
 565 570 575  
 Ala Arg Thr Leu Phe Leu Trp Lys Ile Glu Val His Asp Gln Lys Glu  
 580 585 590  
 Arg Val Tyr Glu Met Arg Arg Trp Asn Glu Ala Leu Val Thr Asn Met  
 595 600 605  
 Leu Pro Glu His Val Ala Arg His Phe Leu Gly Ser Lys Lys Arg Asp  
 610 615 620  
 Glu Glu Leu Tyr Ser Gln Thr Tyr Asp Glu Ile Gly Val Met Phe Ala  
 625 630 635 640  
 Ser Leu Pro Asn Phe Ala Asp Phe Tyr Thr Glu Glu Ser Ile Asn Asn  
 645 650 655  
 Gly Gly Ile Glu Cys Leu Arg Phe Leu Asn Glu Ile Ile Ser Asp Phe  
 660 665 670  
 Asp Ser Leu Leu Asp Asn Pro Lys Phe Arg Val Ile Thr Lys Ile Lys  
 675 680 685  
 Thr Ile Gly Ser Thr Tyr Met Ala Ala Ser Gly Val Thr Pro Asp Val  
 690 695 700  
 Asn Thr Asn Gly Phe Ala Ser Ser Asn Lys Glu Asp Lys Ser Glu Arg  
 705 710 715 720  
 Glu Arg Trp Gln His Leu Ala Asp Leu Ala Asp Phe Ala Leu Ala Met  
 725 730 735  
 Lys Asp Thr Leu Thr Asn Ile Asn Asn Gln Ser Phe Asn Asn Phe Met  
 740 745 750  
 Leu Arg Ile Gly Met Asn Lys Gly Gly Val Leu Ala Gly Val Ile Gly  
 755 760 765  
 Ala Arg Lys Pro His Tyr Asp Ile Trp Gly Asn Thr Val Asn Val Ala  
 770 775 780  
 Ser Arg Met Glu Ser Thr Gly Val Met Gly Asn Ile Gln Val Val Glu  
 785 790 795 800

Glu Thr Gln Val Ile Leu Arg Glu Tyr Gly Phe Arg Phe Val Arg Arg  
                             805                            810                            815

Gly Pro Ile Phe Val Lys Gly Lys Gly Glu Leu Leu Thr Phe Phe Leu  
                             820                            825                            830

Lys Gly Arg Asp Lys Leu Ala Thr Phe Pro Asn Gly Pro Ser Val Thr  
                             835                            840                            845

Leu Pro His Gln Val Val Asp Asn Ser  
                             850                            855

<210> 1359

<211> 188

<212> PRT

<213> Homo sapiens

<400> 1359

Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro  
                             1                            5                            10                            15

Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe  
                             20                            25                            30

Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro  
                             35                            40                            45

Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His  
                             50                            55                            60

Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly  
                             65                            70                            75                            80

Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser  
                             85                            90                            95

Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val  
                             100                            105                            110

Ile Ile Ser Asp Asn Ala Val Asp Asn Asp Ser Phe Tyr Val Glu Met  
                             115                            120                            125

Ile Gln Asp Ser Thr Gln Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu  
                             130                            135                            140

Leu Gly Arg Asp Gly Tyr Met Ile Arg Arg Ser Leu Glu Gln His Gly  
                             145                            150                            155                            160

Leu Pro Trp Ala Ile Ile Ser Ile Pro Val Asn Val Thr Ser Ile Pro  
                             165                            170                            175

Thr Phe Glu Leu Leu Gln Pro Pro Trp Thr Phe Trp  
                             180                            185

<210> 1360

<211> 188

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1360

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Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
 1           5           10           15
Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
          20           25           30
Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
          35           40           45
Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
          50           55           60
Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly
          65           70           75           80
Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
          85           90           95
Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
          100          105          110
Ile Ile Ser Asp Asn Ala Val Asp Asn Asp Ser Phe Tyr Val Glu Met
          115          120          125
Ile Gln Asp Ser Thr Gln Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu
          130          135          140
Leu Gly Arg Asp Gly Tyr Met Ile Arg Arg Ser Leu Glu Gln His Gly
          145          150          155          160
Leu Pro Trp Ala Ile Ile Ser Ile Pro Val Asn Val Thr Ser Ile Pro
          165          170          175
Thr Phe Glu Leu Leu Gln Pro Pro Trp Thr Phe Trp
          180          185

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&lt;210&gt; 1361

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1361

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Met Arg Lys Ile His Thr Pro Leu Phe Asn Leu Leu Gln Val Arg Leu
 1           5           10           15

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Gly Phe Val Tyr Phe Pro Cys Phe Thr Phe Pro Xaa Val Gln Ala Val  
                   20                                  25                                  30  
 Val Glu Thr Gly Thr Gln Gly Leu Cys Val Ala Pro Cys Ser Ser Cys  
                   35                                  40                                  45  
 Leu Gln Glu Ala Cys Gly Ala Leu Val Ser Leu Ala Ser Cys Pro Pro  
                   50                                  55                                  60  
 Phe Leu Leu Pro Pro Leu Thr Leu Pro Pro Thr Leu Ser Leu Arg Thr  
                   65                                  70                                  75                                  80  
 Ser Ser Trp Lys Gly Leu Ala Arg Ala Xaa Val Leu Ala Ser Leu Trp  
                                   85                                  90                                  95  
 Gly Gly Arg Leu Cys Gly Leu Lys Gly Cys Arg Leu Lys Leu Gln Gly  
                   100                                  105                                  110  
 Val Gly Ala Trp  
                   115

&lt;210&gt; 1362

&lt;211&gt; 167

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1362

Met Arg Lys Ile His Thr Pro Leu Phe Asn Leu Leu Gln Val Arg Leu  
   1                                  5                                  10                                  15  
 Gly Phe Val Tyr Phe Pro Cys Phe Thr Phe Pro Cys Val Gln Ala Val  
                   20                                  25                                  30  
 Val Glu Thr Gly Thr Gln Gly Leu Cys Val Ala Pro Cys Ser Ser Cys  
                   35                                  40                                  45  
 Leu Gln Glu Ala Cys Gly Ala Leu Val Ser Leu Ala Ser Cys Pro Pro  
                   50                                  55                                  60  
 Phe Leu Leu Pro Pro Leu Thr Leu Pro Pro Thr Leu Ser Leu Arg Thr  
                   65                                  70                                  75                                  80  
 Ser Ser Trp Lys Gly Leu Ala Arg Ala Cys Val Leu Ala Ser Leu Trp  
                                   85                                  90                                  95  
 Gly Gly Arg Leu Cys Gly Leu Lys Gly Cys Arg Leu Lys Leu Gln Gly  
                   100                                  105                                  110  
 Val Gly Ala Trp Glu Gly Met Cys Thr Ala Leu Leu Thr Asp Pro Phe  
                   115                                  120                                  125  
 Met Phe Ser Phe Phe Asp Ser Val Leu Cys Cys Pro Asp Gly Gly Val  
                   130                                  135                                  140  
 Ser Pro Cys Leu Leu Pro Phe Leu Pro Trp Thr Leu Ala Ile Gly Pro  
                   145                                  150                                  155                                  160

Asp Glu Arg Val His Val Val  
165

<210> 1363  
<211> 286  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (204)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (224)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (228)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (264)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (271)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1363  
Met Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu  
1 5 10 15

Val Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu  
20 25 30

Val Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu  
35 40 45

Gln Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu  
50 55 60

Leu Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Gly Thr Thr Gly Trp  
65 70 75 80

Glu Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu  
85 90 95

Ile Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe  
100 105 110

Ser Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr  
115 120 125

Asn Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu  
 130 135 140  
 Glu Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr  
 145 150 155 160  
 Val Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu  
 165 170 175  
 Asp Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu  
 180 185 190  
 Ser Leu Ser His Ala Pro Leu Asp Ser Leu Lys Xaa Ser Phe Val Glu  
 195 200 205  
 Leu Gly Ala Asn Gln Ala Tyr His Glu Leu Leu Leu Thr Val Leu Xaa  
 210 215 220  
 Tyr Gly Val Xaa His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg  
 225 230 235 240  
 Met Phe Glu Leu Leu Val Lys Gly Val Asn Glu Thr Leu Val Ala Gln  
 245 250 255  
 Arg Val Val Pro Ala Leu His Xaa Leu Ser Pro Val Asp Pro Xaa Asn  
 260 265 270  
 Leu Cys Gln Asp Cys His Asn Phe Gln Pro Leu Gly Leu Phe  
 275 280 285

<210> 1364  
 <211> 283  
 <212> PRT  
 <213> Homo sapiens

<400> 1364  
 Met Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu  
 1 5 10 15  
 Val Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu  
 20 25 30  
 Val Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu  
 35 40 45  
 Gln Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu  
 50 55 60  
 Leu Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp  
 65 70 75 80  
 Glu Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu  
 85 90 95  
 Ile Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe  
 100 105 110  
 Ser Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr

115	120	125
Asn Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu		
130	135	140
Glu Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr		
145	150	155
Val Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu		
165	170	175
Asp Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu		
180	185	190
Ser Leu Ser His Ala Pro Leu Asp Ser Leu Lys Ala Ser Phe Val Glu		
195	200	205
Leu Gly Ala Asn Pro Ala Tyr His Glu Leu Leu Leu Thr Val Leu Trp		
210	215	220
Tyr Gly Val Val His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg		
225	230	235
Met Phe Glu Val Cys Gln His Met Pro Leu Leu Val Ser Ile Ile Met		
245	250	255
Ile Phe Phe Phe Leu Arg Arg Arg Arg Glu Phe Phe Leu Ile Lys Arg		
260	265	270
Leu Cys Ile Ser Lys Lys Lys Lys Lys Lys Lys		
275	280	

<210> 1365  
 <211> 379  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (283)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (303)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (307)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1365
Met Gly Tyr Ile Asp Asp Pro Asp Lys Tyr His Gln Gly Phe Glu Leu
1 5 10 15

Leu Leu Ser Ala Leu Gly Asp Pro Ser Glu Arg Val Val Ser Ala Thr
20 25 30

His Gln Val Phe Leu Pro Ala Tyr Ala Ala Trp Thr Thr Glu Leu Gly  
 35 40 45  
 Asn Leu Gln Ser His Leu Ile Leu Thr Leu Leu Asn Lys Ile Glu Lys  
 50 55 60  
 Leu Leu Arg Glu Gly Glu His Gly Leu Asp Glu His Lys Leu His Met  
 65 70 75 80  
 Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu Val  
 85 90 95  
 Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu Val  
 100 105 110  
 Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu Gln  
 115 120 125  
 Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu Leu  
 130 135 140  
 Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp Glu  
 145 150 155 160  
 Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu Ile  
 165 170 175  
 Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe Ser  
 180 185 190  
 Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr Asn  
 195 200 205  
 Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu Glu  
 210 215 220  
 Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr Val  
 225 230 235 240  
 Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu Asp  
 245 250 255  
 Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu Ser  
 260 265 270  
 Leu Ser His Ala Pro Leu Asp Ser Leu Lys Xaa Ser Phe Val Glu Leu  
 275 280 285  
 Gly Ala Asn Gln Ala Tyr His Glu Leu Leu Leu Thr Val Leu Xaa Tyr  
 290 295 300  
 Gly Val Xaa His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg Met  
 305 310 315 320  
 Phe Glu Leu Leu Val Lys Gly Val Asn Glu Thr Leu Val Ala Gln Arg  
 325 330 335  
 Val Val Pro Ala Leu Ile Thr Leu Ser Ser Asp Pro Glu Ile Ser Val  
 340 345 350



Arg Ile Ala Thr Ile Pro Ala Phe Gly Thr Ile Met Glu Thr Val Ile  
 355 360 365

Gln Arg Glu Leu Leu Glu Arg Val Lys Met Gln  
 370 375

<210> 1366  
 <211> 156  
 <212> PRT  
 <213> Homo sapiens

<400> 1366  
 Met Pro Ala Leu Leu Pro Val Ala Ser Arg Leu Leu Leu Leu Pro Arg  
 1 5 10 15  
 Val Leu Leu Thr Met Ala Ser Gly Ser Pro Pro Thr Gln Pro Ser Pro  
 20 25 30  
 Ala Ser Asp Ser Gly Ser Gly Tyr Val Pro Gly Ser Val Ser Ala Ala  
 35 40 45  
 Phe Val Thr Cys Pro Asn Glu Lys Val Ala Lys Glu Ile Ala Arg Ala  
 50 55 60  
 Val Val Glu Lys Arg Leu Ala Ala Cys Val Asn Leu Ile Pro Gln Ile  
 65 70 75 80  
 Thr Ser Ile Tyr Glu Trp Lys Gly Lys Ile Glu Glu Asp Ser Glu Val  
 85 90 95  
 Leu Met Met Ile Lys Thr Gln Ser Ser Leu Val Pro Ala Leu Thr Asp  
 100 105 110  
 Phe Val Arg Ser Val His Pro Tyr Glu Val Ala Glu Val Ile Ala Leu  
 115 120 125  
 Pro Val Glu Gln Gly Asn Phe Pro Tyr Leu Gln Trp Val Arg Gln Val  
 130 135 140  
 Thr Glu Ser Val Ser Asp Ser Ile Thr Val Leu Pro  
 145 150 155

<210> 1367  
 <211> 156  
 <212> PRT  
 <213> Homo sapiens

<400> 1367  
 Met Pro Ala Leu Leu Pro Val Ala Ser Arg Leu Leu Leu Leu Pro Arg  
 1 5 10 15  
 Val Leu Leu Thr Met Ala Ser Gly Ser Pro Pro Thr Gln Pro Ser Pro  
 20 25 30  
 Ala Ser Asp Ser Gly Ser Gly Tyr Val Pro Gly Ser Val Ser Ala Ala

Gln Leu Ala Arg Gln Ile His Phe Gln Ala Ser Leu Pro Ala Gly Pro

100 105 110  
 Gln Arg Val Glu His Cys Ser Trp His Ser Pro Leu Asp Arg Phe Phe  
 115 120 125  
 Ser Ser Pro Leu Trp His Pro Cys Ser Ser Leu Arg Gln His Ile Leu  
 130 135 140  
 Pro Ser Pro Asp Gly Pro Ala Pro Arg His Thr Gly Leu Arg Glu Pro  
 145 150 155 160  
 Arg Leu Gly Xaa Glu Glu Ala Ser Ala Gln Pro Arg Asn Phe Ser His  
 165 170 175  
 Asn Ser Leu Arg Gly Ala Arg Pro Gln Asp Pro Ser Glu Glu Gly Pro  
 180 185 190  
 Gly Asp Phe Gly Phe Leu His Ala Ser Ser Ser Ile Glu Ser Glu Ala  
 195 200 205  
 Lys Pro Ala Gln Pro Gln Pro Thr Gly Glu Lys Glu Gln Asp Lys Ser  
 210 215 220  
 Lys Thr Leu Ser Leu Glu Glu Ala Val Thr Ser Ile Gln Gln Leu Phe  
 225 230 235 240  
 Gln Leu Ser Val Ser Ile Xaa Phe Asn Phe Leu Gly Thr Glu Asn Met  
 245 250 255  
 Lys Ser Gly Asp His Thr Ala Ala Phe Ser Tyr Phe Gln Lys Ala Ala  
 260 265 270  
 Ala Arg Gly Tyr Ser Lys Ala Gln Tyr Asn Ala Gly Leu Cys His Glu  
 275 280 285  
 His Gly Arg Gly Thr Pro Arg Asp Ile Ser Lys Ala Val Leu Tyr Tyr  
 290 295 300  
 Gln Leu Ala Ala Ser Gln Gly His Ser Leu Ala Gln Tyr Arg Tyr Ala  
 305 310 315 320  
 Arg Cys Leu Leu Arg Asp Pro Ala Ser Ser Trp Asn Pro Glu Arg Gln  
 325 330 335  
 Arg Ala Val Ser Leu Leu Lys Gln Ala Ala Asp Ser Gly Leu Arg Glu  
 340 345 350  
 Ala Gln Ala Phe Leu Gly Val Leu Phe Thr Lys Glu Pro Tyr Leu Asp  
 355 360 365  
 Glu Gln Arg Ala Val Lys Tyr Leu Trp Leu Ala Ala Asn Asn Gly Asp  
 370 375 380  
 Ser Gln Ser Arg Tyr His Leu Gly Ile Cys Tyr Glu Lys Gly Leu Gly  
 385 390 395 400  
 Val Gln Arg Asn Leu Gly Glu Ala Leu Arg Cys Tyr Gln Gln Ser Ala  
 405 410 415  
 Ala Leu Gly Asn Glu Ala Ala Gln Glu Arg Leu Arg Ala Leu Phe Ser  
 815

420

425

430

Met Gly Ala Ala Ala Gly Gly Pro Ala Thr  
 435 440

&lt;210&gt; 1369

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1369

Met Gly Leu Arg Leu Pro Pro Pro Leu Cys Trp Phe Leu Cys Leu Thr  
 1 5 10 15

Ser Thr Gly Gln Val Pro Met Ala Gln Ala Arg Ala Gly Val Gln Gly  
 20 25 30

Pro Met Asp Gly Arg Met Pro Ser Asn Gly Cys Leu Pro Val Ser Pro  
 35 40 45

Arg Thr Pro Tyr Gly Met Pro Tyr Leu Gly Ala Leu Trp Pro Cys Trp  
 50 55 60

Pro Cys Ser Trp Gln Gly Arg Ser Thr Ser Arg His Pro Cys Gln Gln  
 65 70 75 80

Asp Leu Ser Gly

&lt;210&gt; 1370

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1370

Met Val Gly Val Gln Ile Trp Thr Leu Thr Cys Cys Val Ile Leu Val  
 1 5 10 15

Val Val Leu Pro Phe Ser Val Pro His Ser Leu Ile Cys Arg Met Gly  
 20 25 30

Leu Ile Ala Thr Ser Val Leu Gln Gly His Gly Lys Ser Lys Met Ile  
 35 40 45

Asn Ala Thr Val Cys Leu Ala Leu Gly Leu Pro Arg Val Pro Arg Glu  
 50 55 60

Asp Gln Leu Ile Val Ser Leu Asp Pro Gln Ser Ser Glu Ser Ala Ser  
 65 70 75 80

Leu Glu Ala Leu Leu Lys Tyr Ser Phe Leu Gly Pro Pro Ser Leu Phe  
 85 90 95

Pro Ile Gln Trp Ser Gly Leu Gly Leu Ser Ile Ser Val Ser Tyr Gln  
 100 105 110

Phe Gln Val Thr Leu Val Pro Leu Ala Trp Gly Pro Asn Ser Gln Asp  
 115 120 125

Pro

<210> 1371  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1371  
 Xaa Xaa Asp Thr Gln Gly Arg Val Arg Gly Arg His Glu Glu Trp Gly  
 1 5 10 15

Gly Arg Arg Trp Arg Lys Glu Gly Ser Glu Gln Arg Ala Pro Gly Met  
 20 25 30

Ala Trp Lys Arg Leu Ser Pro Trp Ile Leu Trp Val Gly Ala Ser Gly  
 35 40 45

Leu Thr Ser Xaa Xaa  
 50

<210> 1372  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 1372  
 Met Val Gly Val Gln Ile Trp Thr Leu Thr Cys Cys Val Ile Leu Val  
 1 5 10 15

Val Val Leu Pro Phe Ser Val Pro His Ser Leu Ile Cys Arg Met Gly  
 20 25 30

Leu Ile Ala Thr Ser Val Leu Gln Gly His Gly Lys Ser Lys Met Ile  
           35                          40                          45  
 Asn Ala Thr Val Cys Leu Ala Leu Gly Leu Pro Arg Val Pro Arg Glu  
           50                          55                          60  
 Asp Gln Leu Ile Val Ser Leu Asp Pro Gln Ser Ser Glu Ser Ala Ser  
           65                          70                          75                          80  
 Leu Glu Ala Leu Leu Lys Tyr Ser Phe Leu Gly Pro Pro Ser Leu Phe  
                           85                          90                          95  
 Pro Ile Gln Trp Ser Gly Leu Gly Leu Ser Ile Ser Val Ser Tyr Gln  
                           100                          105                          110  
 Phe Gln Val Thr Leu Val Pro Leu Ala Trp Gly Pro Asn Ser Gln Asp  
           115                          120                          125  
 Pro

<210> 1373  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (114)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1373  
 Met Gly Phe Leu Phe Leu Leu Gly Leu Tyr Ile Ser Ser Leu Ala Ser  
   1                          5                          10                          15  
 Cys Met Gly Gly Leu Tyr Gly Ala Pro Arg Ile Leu Gln Cys Ile Ala  
           20                          25                          30  
 Gln Glu Lys Val Ile Pro Ala Leu Ala Cys Leu Gly Gln Gly Lys Gly  
           35                          40                          45  
 Pro Asn Lys Thr Pro Val Ala Ala Ile Cys Leu Thr Ser Leu Val Thr  
           50                          55                          60  
 Met Ala Phe Val Phe Val Gly Gln Val Asn Val Leu Ala Pro Ile Val  
           65                          70                          75                          80  
 Thr Ile Asn Phe Met Leu Thr Tyr Val Ala Val Asp Tyr Ser Tyr Phe  
                           85                          90                          95  
 Ser Leu Ser Met Cys Ser Cys Ser Leu Thr Pro Val Pro Glu Pro Val  
           100                          105                          110  
 Leu Xaa Glu Gly Ala  
           115

<210> 1374  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (85)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (90)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (97)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1374  
 Gln Gly Thr Pro Arg Leu Cys Thr Thr Arg Leu Leu Val Gln Arg Ala  
           1                  5                  10                  15  
 Thr Ile Ser Val Cys Phe Ile Phe Tyr Cys Ile Ile Tyr Ser Lys Ile  
                   20                  25                  30  
 Asn Asn Thr Leu Thr Cys Phe His Thr Gln Lys Ile Tyr Arg Val Lys  
                   35                  40                  45  
 Ser Leu Pro Pro Ile Leu Ile Leu His Leu Leu Ser Ser Cys Leu Pro  
           50                  55                  60  
 Trp Pro Arg Gly Asn His Tyr Ser His Pro Tyr Ile Gln His Phe Phe  
           65                  70                  75                  80  
 Met Asp Ile Gln Xaa Asn Gly Asn Val Xaa Ser His Ile Ser Leu Phe  
                   85                  90                  95  
 Xaa Pro

<210> 1375  
 <211> 407  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (114)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1375  
 Met Gly Phe Leu Phe Leu Leu Gly Leu Tyr Ile Ser Ser Leu Ala Ser  
           1                  5                  10                  15  
 Cys Met Gly Gly Leu Tyr Gly Ala Pro Arg Ile Leu Gln Cys Ile Ala  
                   20                  25                  30

Gln Glu Lys Val Ile Pro Ala Leu Ala Cys Leu Gly Gln Gly Lys Gly  
 35 40 45  
 Pro Asn Lys Thr Pro Val Ala Ala Ile Cys Leu Thr Ser Leu Val Thr  
 50 55 60  
 Met Ala Phe Val Phe Val Gly Gln Val Asn Val Leu Ala Pro Ile Val  
 65 70 75 80  
 Thr Ile Asn Phe Met Leu Thr Tyr Val Ala Val Asp Tyr Ser Tyr Phe  
 85 90 95  
 Ser Leu Ser Met Cys Ser Cys Ser Leu Thr Pro Val Pro Glu Pro Val  
 100 105 110  
 Leu Xaa Glu Gly Ala Glu Gly Leu His Cys Ser Glu His Leu Leu Leu  
 115 120 125  
 Glu Lys Ala Pro Ser Tyr Gly Ser Glu Gly Pro Ala Gln Arg Val Leu  
 130 135 140  
 Glu Gly Thr Leu Leu Glu Phe Thr Lys Asp Met Asp Gln Leu Leu Gln  
 145 150 155 160  
 Leu Thr Arg Lys Leu Glu Ser Ser Gln Pro Arg Gln Gly Glu Gly Asn  
 165 170 175  
 Arg Thr Pro Glu Ser Gln Lys Arg Lys Ser Lys Lys Ala Thr Lys Gln  
 180 185 190  
 Thr Leu Gln Asp Ser Phe Leu Leu Asp Leu Lys Ser Pro Pro Ser Phe  
 195 200 205  
 Pro Val Glu Ile Ser Asp Arg Leu Pro Ala Ala Ser Trp Glu Gly Gln  
 210 215 220  
 Glu Ser Cys Trp Asn Lys Gln Thr Ser Lys Ser Glu Gly Thr Gln Pro  
 225 230 235 240  
 Glu Gly Thr Tyr Gly Glu Gln Leu Val Pro Glu Leu Cys Asn Gln Ser  
 245 250 255  
 Glu Ser Ser Gly Glu Asp Phe Phe Leu Lys Ser Arg Leu Gln Glu Gln  
 260 265 270  
 Asp Val Trp Arg Arg Ser Thr Ser Phe Tyr Thr His Met Cys Asn Pro  
 275 280 285  
 Trp Val Ser Leu Leu Gly Ala Val Gly Ser Leu Leu Ile Met Phe Val  
 290 295 300  
 Ile Gln Trp Val Tyr Thr Leu Val Asn Met Gly Val Ala Ala Ile Val  
 305 310 315 320  
 Tyr Phe Tyr Ile Gly Arg Ala Ser Pro Gly Leu His Leu Gly Ser Ala  
 325 330 335  
 Ser Asn Phe Ser Phe Phe Arg Trp Met Arg Ser Leu Leu Leu Pro Ser  
 340 345 350



Cys Arg Ser Leu Gln Ser Pro Gln Glu Gln Ile Ile Leu Ala Pro Ser  
 355 360 365  
 Leu Ala Lys Val Asp Met Glu Met Thr Gln Leu Thr Gln Glu Asn Ala  
 370 375 380  
 Asp Phe Ala Thr Arg Asp Arg Tyr His His Ser Ser Leu Val Asn Arg  
 385 390 395 400  
 Glu Gln Leu Met Pro His Tyr  
 405

<210> 1376  
 <211> 137  
 <212> PRT  
 <213> Homo sapiens

<400> 1376  
 Met Leu Ser Gly Arg Leu Val Leu Gly Leu Val Ser Met Ala Gly Arg  
 1 5 10 15  
 Val Cys Leu Cys Gln Gly Ser Ala Gly Ser Gly Ala Ile Gly Pro Val  
 20 25 30  
 Glu Ala Ala Ile Arg Thr Lys Leu Glu Glu Ala Leu Ser Pro Glu Val  
 35 40 45  
 Leu Glu Leu Arg Asn Glu Ser Gly Gly His Ala Val Pro Pro Gly Ser  
 50 55 60  
 Glu Thr His Phe Arg Val Ala Val Val Ser Ser Arg Phe Glu Gly Leu  
 65 70 75 80  
 Ser Pro Leu Gln Arg His Arg Leu Val His Ala Ala Leu Ala Glu Glu  
 85 90 95  
 Leu Gly Gly Pro Val His Ala Leu Ala Ile Gln Ala Arg Thr Pro Ala  
 100 105 110  
 Gln Trp Arg Glu Asn Ser Gln Leu Asp Thr Ser Pro Pro Cys Leu Gly  
 115 120 125  
 Gly Asn Lys Lys Thr Leu Gly Thr Pro  
 130 135

<210> 1377  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids.

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (104)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1377  
 Phe Gly Pro Ala Val Phe Gly Phe Gly Ser Pro Arg Gly Lys Pro Pro  
           1                  5                  10                  15  
 Gly Asn Xaa Arg Gly Gly Pro Ile Arg Val Pro Gly Phe Gly Arg Pro  
                   20                  25                  30  
 Arg Pro Ile Ser Ala Pro Glu Val Trp Glu Gly Arg Pro Leu Xaa Ala  
                   35                  40                  45  
 Pro Arg Ser Cys Phe Arg Asn Phe Arg Xaa Arg Arg Ser Gly Gly His  
                   50                  55                  60  
 Ala Val Pro Pro Gly Ser Glu Thr His Phe Arg Val Ala Val Val Ser  
                   65                  70                  75                  80  
 Ser Arg Phe Glu Gly Leu Ser Pro Leu Gln Arg His Arg Leu Val His  
                   85                  90                  95  
 Ala Ala Leu Ala Glu Glu Leu Xaa Gly Pro Val His Ala Leu Ala Ile  
                   100                  105                  110  
 Gln Ala Arg Thr Pro Ala Gln Trp Arg Glu Asn Ser Gln Leu Asp Thr  
                   115                  120                  125  
 Ser Pro Pro Cys Leu Gly Gly Asn Lys Lys Thr Leu Gly Thr Pro  
                   130                  135                  140

<210> 1378  
 <211> 137  
 <212> PRT  
 <213> Homo sapiens

<400> 1378  
 Met Leu Ser Gly Arg Leu Val Leu Gly Leu Val Ser Met Ala Gly Arg  
           1                  5                  10                  15  
 Val Cys Leu Cys Gln Gly Ser Ala Gly Ser Gly Ala Ile Gly Pro Val  
                   20                  25                  30  
 Glu Ala Ala Ile Arg Thr Lys Leu Glu Glu Ala Leu Ser Pro Glu Val  
                   35                  40                  45

Leu Glu Leu Arg Asn Glu Ser Gly Gly His Ala Val Pro Pro Gly Ser  
 50 55 60

Glu Thr His Phe Arg Val Ala Val Val Ser Ser Arg Phe Glu Gly Leu  
 65 70 75 80

Ser Pro Leu Gln Arg His Arg Leu Val His Ala Ala Leu Ala Glu Glu  
 85 90 95

Leu Gly Gly Pro Val His Ala Leu Ala Ile Gln Ala Arg Thr Pro Ala  
 100 105 110

Gln Trp Arg Glu Asn Ser Gln Leu Asp Thr Ser Pro Pro Cys Leu Gly  
 115 120 125

Gly Asn Lys Lys Thr Leu Gly Thr Pro  
 130 135

<210> 1379

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1379

Met Ile Arg Arg Leu Val Phe Ala Ala Phe Pro Arg Leu Phe Pro Val  
 1 5 10 15

Xaa Leu Pro Ser Met Leu Thr His Trp Ala Ser Leu Ala Val Ile Pro  
 20 25 30

Thr Met Thr Ala Thr Ser Val Gly Lys Ala Pro Pro Gly Pro Leu Pro  
 35 40 45

Asp Ala Ser Pro Ser Leu Arg Leu Pro Ala Arg Arg Arg Pro Asp Pro  
 50 55 60

Val Gly Ala Cys Arg Gly Val Arg Gly Met Ala Asp Leu Met Val Pro  
 65 70 75 80

Leu Pro

<210> 1380

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (210)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (214)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (237)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (246)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1380

Glu	Phe	Gly	Thr	Ser	Leu	Lys	Val	Arg	Gly	Phe	Ile	Leu	Glu	Val	Ser
1				5					10					15	

Glu	Thr	Thr	Asn	Pro	Pro	Glu	Gly	Thr	Asn	Ser	Gly	His	Ser	Gly	Met
			20					25						30	

Val	Ser	Ala	Leu	Cys	Gly	Leu	Cys	Leu	Leu	Gly	Ser	Asn	Asp	Ser	Pro
		35				40						45			

Ala	Ser	Ala	Ser	Gln	Val	Ala	Gly	Thr	Thr	Gly	Leu	Ser	Lys	Ser	Leu
		50				55					60				

Gly	Leu	Ile	Glu	Gly	Tyr	Gly	Gly	Arg	Gly	Lys	Gly	Gly	Leu	Pro	Ala
	65				70					75					80

Thr	Leu	Ser	Pro	Ala	Glu	Glu	Glu	Lys	Ala	Lys	Gly	Pro	His	Glu	Lys
				85					90					95	

Tyr	Gly	Tyr	Asn	Ser	Tyr	Leu	Ser	Glu	Lys	Ile	Ser	Leu	Asp	Arg	Ser
			100					105					110		

Ile	Pro	Asp	Tyr	Arg	Pro	Thr	Lys	Cys	Lys	Glu	Leu	Lys	Tyr	Ser	Lys
		115					120					125			

Asp	Leu	Pro	Gln	Ile	Ser	Ile	Ile	Phe	Ile	Phe	Val	Asn	Glu	Ala	Leu
	130					135					140				

Ser	Val	Ile	Leu	Arg	Ser	Val	His	Ser	Ala	Val	Asn	His	Thr	Pro	Thr
	145				150					155					160

His	Leu	Leu	Lys	Glu	Ile	Ile	Leu	Val	Asp	Asp	Asn	Ser	Asp	Glu	Xaa
			165					170						175	

Glu	Leu	Lys	Val	Pro	Leu	Glu	Glu	Tyr	Val	His	Lys	Arg	Tyr	Pro	Gly
			180					185					190		

Leu	Val	Lys	Val	Val	Arg	Asn	Gln	Lys	Arg	Glu	Ser	Leu	Ile	Arg	Ala
			195				200						205		

Arg Xaa Glu Gly Trp Xaa Val Ala Thr Gly Gln Val Thr Gly Phe Phe  
 210 215 220

Asp Ala Pro Arg Gly Ile His Arg Leu Leu Gly Leu Xaa Arg Val Tyr  
 225 230 235 240

Pro Asp Pro Gly Lys Xaa Arg Lys Arg Gly Asn Leu Pro Leu  
 245 250

<210> 1381

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1381

Gly Arg Glu Phe Glu Thr Ser Leu Asp Asn Ile Ala Arg Asp Pro Val  
 1 5 10 15

Cys Ile Thr Ser Leu Lys Ile Asp Trp Ala Trp Trp Cys Met Met Val  
 20 25 30

Val Pro Ala Thr Arg Gly Thr Gly Ala Glu Gly Ser Leu Glu Ser Arg  
 35 40 45

Phe Gln Ala Ala Val Gly Cys Asp Cys Val Thr Ala Leu Gln Pro Gly  
 50 55 60

Gln Gln Ser Glu Thr Leu Ser Leu Lys Lys  
 65 70

<210> 1382

<211> 273

<212> PRT

<213> Homo sapiens

<400> 1382

Met Val Ser Ala Leu Cys Gly Leu Cys Leu Leu Gly Ser Asn Asp Ser  
 1 5 10 15

Pro Ala Ser Ala Ser Gln Val Ala Gly Thr Thr Gly Leu Ser Lys Ser  
 20 25 30

Leu Gly Leu Ile Glu Gly Tyr Gly Gly Arg Gly Lys Gly Gly Leu Pro  
 35 40 45

Ala Thr Leu Ser Pro Ala Glu Glu Glu Lys Ala Lys Gly Pro His Glu  
 50 55 60

Lys Tyr Gly Tyr Asn Ser Tyr Leu Ser Glu Lys Ile Ser Leu Asp Arg  
 65 70 75 80

Ser Ile Pro Asp Tyr Arg Pro Thr Lys Cys Lys Glu Leu Lys Tyr Ser  
 85 90 95

Lys Asp Leu Pro Gln Ile Ser Ile Ile Phe Ile Phe Val Asn Glu Ala

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<400> 1383
Met Gln Gln Gly Pro Lys Glu Phe Ile Glu Cys Val Ser His Ile Arg
  1              5              10              15

Leu Leu Ser Trp Leu Leu Leu Gly Ser Leu Thr His Asn Ala Val Cys
      20              25              30

Pro Asn Ala Ser Ser Pro Cys Leu Pro Ile Pro Leu Asp Ala Gly Ser
      35              40              45

His Val Ala Asp His Leu Ile Val Ile Leu Ile Gly Phe Pro Glu Gln
      50              55              60

Ser Lys Thr Ser Val Leu His Met Cys Ser Leu Phe His Ala Phe Ile
      65              70              75              80

Phe Ala Gln Leu Trp Thr Val Tyr Cys Glu Gln Ser Ala Val Ala Thr
      85              90              95

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Asn Leu Gln Asn Gln Asn Glu Phe Ser Phe Thr Ala Ile Leu Thr Ala  
 100 105 110

Leu Glu Phe Trp Ser Arg Val Thr Pro Ser Ile Leu Gln Leu Met Ala  
 115 120 125

His Asn Lys Val Met Val Glu Met Val Cys Leu His Val Ile Ser Leu  
 130 135 140

Met Glu Ala Leu Gln Glu Cys Asn Ser Thr Ile Phe Val Lys Leu Ile  
 145 150 155 160

Pro Met Trp Leu Pro Met Ile Gln Ser Asn Ile Lys His Leu Ser Ala  
 165 170 175

Gly Leu Gln Leu Arg Leu Gln Ala Ile Gln Asn His Val Asn His His  
 180 185 190

Ser Leu Arg Thr Leu Pro Gly Ser Gly Gln Ser Ser Ala Gly Leu Ala  
 195 200 205

Ala Leu Arg Lys Trp Leu Gln Cys Thr Gln Phe Lys Met Ala Gln Val  
 210 215 220

Glu Ile Gln Ser Ser Glu Ala Ala Ser Gln Phe Tyr Pro Leu  
 225 230 235

<210> 1384

<211> 227

<212> PRT

<213> Homo sapiens

<400> 1384

His Glu Leu Lys Val Gly Leu Ala Gln Ile Ala Ala Met Asp Ile Ser  
 1 5 10 15

Arg Gly Asn His Arg Asp Asn Lys Ala Val Ile Arg Tyr Leu Pro Trp  
 20 25 30

Leu Tyr His Pro Pro Ser Ala Met Gln Gln Gly Pro Lys Glu Phe Ile  
 35 40 45

Glu Cys Val Ser His Ile Arg Leu Leu Ser Trp Leu Leu Leu Gly Ser  
 50 55 60

Leu Thr His Asn Ala Val Cys Pro Asn Ala Ser Ser Pro Cys Leu Pro  
 65 70 75 80

Ile Pro Leu Asp Ala Gly Ser His Val Ala Asp His Leu Ile Val Ile  
 85 90 95

Leu Ile Gly Phe Pro Glu Gln Ser Lys Thr Ser Val Leu His Met Cys  
 100 105 110

Ser Leu Phe His Ala Phe Ile Phe Ala Gln Leu Trp Thr Val Tyr Cys  
 115 120 125

Glu Gln Ser Ala Val Ala Thr Asn Leu Gln Asn Gln Asn Glu Phe Ser  
 130 135 140  
 Phe Thr Ala Ile Leu Thr Ala Leu Glu Phe Trp Ser Arg Val Thr Pro  
 145 150 155 160  
 Ser Ile Leu Gln Leu Met Ala His Asn Lys Val Met Val Glu Met Val  
 165 170 175  
 Cys Leu His Val Ile Ser Leu Met Glu Ala Leu Gln Glu Cys Asn Ser  
 180 185 190  
 Thr Ile Phe Val Lys Leu Ile Pro Met Trp Leu Pro Met Ile Gln Ser  
 195 200 205  
 Asn Ile Lys His Leu Ser Ala Gly Leu Gln Phe Ala Ser Arg Leu Phe  
 210 215 220  
 Arg Thr Thr  
 225

<210> 1385  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 1385  
 Met Ser Thr Cys Cys Thr Ser Ala Leu Gln Tyr Leu Leu Ala Leu Phe  
 1 5 10 15  
 Pro Leu Pro Ala Pro Asn Cys Val Ser Tyr Arg Ser Gln Gly Ser Ser  
 20 25 30  
 Cys Tyr Leu Leu Leu Gln Ile Gln Lys Pro Arg Leu Arg Glu Glu Pro  
 35 40 45  
 Glu Trp Pro Gln Pro Gln Ser Lys Ser Met Arg Gly Ser Met Lys Leu  
 50 55 60  
 Gly Phe Phe Pro His Cys Thr Arg Leu Leu Pro Ser Trp Gly Gly Gly  
 65 70 75 80  
 Gly Arg Cys Ser Gly  
 85

<210> 1386  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <400> 1386



Leu Leu Gly Cys Thr Lys Ile Gly Gly Arg Ser Asp Leu Ala Gly Pro  
 1 5 10 15  
 Trp Val Arg Xaa Arg Ser Leu Glu Pro Thr Cys Val Gly Met Asn Pro  
 20 25 30  
 Gly Ser Ala Gly Cys Pro Leu Val Ser Gly Ser Thr Ser Leu Cys Phe  
 35 40 45  
 Arg Val Leu Ile Tyr Lys Met Gly Met Met Met Met Ile Leu Trp Gly  
 50 55 60  
 Cys Asn Met Val Gln Ser His Trp Lys Ser Leu Ala Val Pro Gln Lys  
 65 70 75 80  
 Val Lys His Lys Ser Tyr His Met Ile Gln Val Trp Gln His Ile Pro  
 85 90 95  
 Val Val Pro Ala Thr Gln Glu Asp His Leu Ser Pro Gly Val  
 100 105 110

<210> 1387  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 1387  
 Met Ser Thr Cys Cys Thr Ser Ala Leu Gln Tyr Leu Leu Ala Leu Phe  
 1 5 10 15  
 Pro Leu Pro Ala Pro Asn Cys Val Ser Tyr Arg Ser Gln Gly Ser Ser  
 20 25 30  
 Cys Tyr Leu Leu Leu Gln Ile Gln Lys Pro Arg Leu Arg Glu Glu Pro  
 35 40 45  
 Glu Trp Pro Gln Pro Gln Ser Lys Ser Met Arg Gly Ser Met Lys Leu  
 50 55 60  
 Gly Phe Phe Pro His Cys Thr Arg Leu Leu Pro Ser Trp Gly Gly Gly  
 65 70 75 80  
 Gly Arg Cys Ser Gly  
 85

<210> 1388  
 <211> 261  
 <212> PRT  
 <213> Homo sapiens

<400> 1388  
 Met Ala Val Lys Arg Gln Pro Gly Ala Ala Ala Leu Ala Trp Lys Asn  
 1 5 10 15  
 Pro Ile Ser Ser Trp Phe Thr Ala Met Leu His Cys Phe Gly Gly Gly  
 20 25 30

Ile Leu Ser Cys Leu Leu Leu Ala Glu Pro Pro Leu Lys Phe Leu Ala  
 35 40 45  
 Asn His Thr Asn Ile Leu Leu Ala Ser Ser Ile Trp Tyr Ile Thr Phe  
 50 55 60  
 Phe Cys Pro His Asp Leu Val Ser Gln Gly Tyr Ser Tyr Leu Pro Val  
 65 70 75 80  
 Gln Leu Leu Ala Ser Gly Met Lys Glu Val Thr Arg Thr Trp Lys Ile  
 85 90 95  
 Val Gly Gly Val Thr His Ala Asn Ser Tyr Tyr Lys Asn Gly Trp Ile  
 100 105 110  
 Val Met Ile Ala Ile Gly Trp Ala Arg Gly Ala Gly Gly Thr Ile Ile  
 115 120 125  
 Thr Asn Phe Glu Arg Leu Val Lys Gly Asp Trp Lys Pro Glu Gly Asp  
 130 135 140  
 Glu Trp Leu Lys Met Ser Tyr Pro Ala Lys Val Thr Leu Leu Gly Ser  
 145 150 155 160  
 Val Ile Phe Thr Phe Gln His Thr Gln His Leu Ala Ile Ser Lys His  
 165 170 175  
 Asn Leu Met Phe Leu Tyr Thr Ile Phe Ile Val Ala Thr Lys Ile Thr  
 180 185 190  
 Met Met Thr Thr Gln Thr Ser Thr Met Thr Phe Ala Pro Phe Glu Asp  
 195 200 205  
 Thr Leu Ser Trp Met Leu Phe Gly Trp Gln Gln Pro Phe Ser Ser Cys  
 210 215 220  
 Glu Lys Lys Ser Glu Ala Lys Ser Pro Ser Asn Gly Val Gly Ser Leu  
 225 230 235 240  
 Ala Ser Lys Pro Val Asp Val Ala Ser Asp Asn Val Lys Lys Lys His  
 245 250 255  
 Thr Lys Lys Asn Glu  
 260

&lt;210&gt; 1389

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1389

Ile Val Asn Pro Met Phe Cys Asn Phe His Phe Arg Ser Leu Thr Tyr  
 1 5 10 15

Phe Phe Leu Ser His Lys Asn Thr Phe Val Leu Ile Val Gly Glu Ile  
 20 25 30

Phe Ser Ala Phe Cys Met Phe Phe Leu Ile Phe Val Gly Leu Asn Ile  
                   35                  40                  45  
 Leu Val Val Ile Thr Val Ile Ile Gln Gln Lys Ala Tyr Pro Phe Lys  
                   50                  55                  60  
 Asn Phe Ser Thr Met Ser Phe Phe  
                   65                  70

<210> 1390  
 <211> 261  
 <212> PRT  
 <213> Homo sapiens

<400> 1390  
 Met Ala Val Lys Arg Gln Pro Gly Ala Ala Ala Leu Ala Trp Lys Asn  
                   1                  5                  10                  15  
 Pro Ile Ser Ser Trp Phe Thr Ala Met Leu His Cys Phe Gly Gly Gly  
                   20                  25                  30  
 Ile Leu Ser Cys Leu Leu Leu Ala Glu Pro Pro Leu Lys Phe Leu Ala  
                   35                  40                  45  
 Asn His Thr Asn Ile Leu Leu Ala Ser Ser Ile Trp Tyr Ile Thr Phe  
                   50                  55                  60  
 Phe Cys Pro His Asp Leu Val Ser Gln Gly Tyr Ser Tyr Leu Pro Val  
                   65                  70                  75                  80  
 Gln Leu Leu Ala Ser Gly Met Lys Glu Val Thr Arg Thr Trp Lys Ile  
                   85                  90                  95  
 Val Gly Gly Val Thr His Ala Asn Ser Tyr Tyr Lys Asn Gly Trp Ile  
                   100                  105                  110  
 Val Met Ile Ala Ile Gly Trp Ala Arg Gly Ala Gly Gly Thr Ile Ile  
                   115                  120                  125  
 Thr Asn Phe Glu Arg Leu Val Lys Gly Asp Trp Lys Pro Glu Gly Asp  
                   130                  135                  140  
 Glu Trp Leu Lys Met Ser Tyr Pro Ala Lys Val Thr Leu Leu Gly Ser  
                   145                  150                  155                  160  
 Val Ile Phe Thr Phe Gln His Thr Gln His Leu Ala Ile Ser Lys His  
                   165                  170                  175  
 Asn Leu Met Phe Leu Tyr Thr Ile Phe Ile Val Ala Thr Lys Ile Thr  
                   180                  185                  190  
 Met Met Thr Thr Gln Thr Ser Thr Met Thr Phe Ala Pro Phe Glu Asp  
                   195                  200                  205  
 Thr Leu Ser Trp Met Leu Phe Gly Trp Gln Gln Pro Phe Ser Ser Cys  
                   210                  215                  220  
 Glu Lys Lys Ser Glu Ala Lys Ser Pro Ser Asn Gly Val Gly Ser Leu

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<400> 1392
Met His Leu His Val Ser Val Ser Leu Ile Trp Gly Leu Leu Ser Phe
  1              5              10              15
Leu Ser Leu Gln Val Cys Val Phe Val Gly Ser Ser Gln Pro Leu Leu
      20              25              30
Leu Gln Cys Val Ser Gly Pro Ala Pro Phe Leu Leu Ser Leu Gly Val
      35              40              45
Arg His Gln Pro Phe Trp Asp Cys Pro Thr Gly Pro Ser Arg Glu Glu
  50              55              60
Thr Arg Leu Asn Pro Arg Ala Leu Thr Arg Pro Arg Gln Thr Cys Trp
  65              70              75              80

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Ser Phe Gly Trp Gln Val Ala Leu Arg Pro Ser Glu Lys Ser Pro Cys  
                                     85                                    90                                    95

Phe Ser

<210> 1393  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (116)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (139)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1393  
 Met Ala Leu Tyr Glu Leu Phe Ser His Pro Val Glu Arg Xaa Tyr Arg  
     1                                    5                                    10                                    15

Ala Gly Leu Cys Ser Lys Ala Ala Leu Phe Leu Leu Leu Ala Ala Ala  
                                     20                                    25                                    30

Leu Thr Tyr Ile Pro Pro Leu Leu Val Ala Phe Arg Ser His Gly Phe  
                                     35                                    40                                    45

Trp Leu Lys Arg Thr Ala Thr Arg Ser Ser Arg Pro Cys Ala Ser Asn  
                                     50                                    55                                    60

Thr Arg Cys Cys Ser Trp Pro Cys Ser Asp Pro Lys Ala Thr Gly Ser  
                                     65                                    70                                    75                                    80

Ser Pro Gly Ala Arg Ser Pro Pro Ser Thr Gly Cys Lys Gly Ile Ala  
                                     85                                    90                                    95

Cys Ala Ser Arg Ser Phe Arg Gly Gly Asp Asn Ala Cys Cys Val Lys  
                                     100                                    105                                    110

Gln Asp Ser Xaa Ser Leu Cys Ile Tyr Arg Ser Asp Val Asp Ser Ser  
                                     115                                    120                                    125

Gln Asn Ser Leu Val Thr Lys Gly Ala Gly Xaa  
                                     130                                    135

<210> 1394  
 <211> 316

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1394

Met Ala Leu Tyr Glu Leu Phe Ser His Pro Val Glu Arg Ser Tyr Arg  
 1 5 10 15

Ala Gly Leu Cys Ser Lys Ala Ala Leu Phe Leu Leu Ala Ala Ala  
 20 25 30

Leu Thr Tyr Ile Pro Pro Leu Leu Val Ala Phe Arg Ser His Gly Phe  
 35 40 45

Trp Leu Lys Arg Ser Ser Tyr Glu Glu Gln Pro Thr Val Arg Phe Gln  
 50 55 60

His Gln Val Leu Leu Val Ala Leu Leu Gly Pro Glu Ser Asp Gly Phe  
 65 70 75 80

Leu Ala Trp Ser Thr Phe Pro Ala Phe Asn Arg Leu Gln Gly Asp Arg  
 85 90 95

Leu Arg Val Pro Leu Val Ser Thr Arg Glu Glu Asp Arg Asn Gln Asp  
 100 105 110

Gly Lys Thr Asp Met Leu His Phe Lys Leu Glu Leu Pro Leu Gln Ser  
 115 120 125

Thr Glu His Val Leu Gly Val Gln Leu Ile Leu Thr Phe Ser Tyr Arg  
 130 135 140

Leu His Arg Met Ala Thr Leu Val Met Gln Ser Met Ala Phe Leu Gln  
 145 150 155 160

Ser Ser Phe Pro Val Pro Gly Ser Gln Leu Tyr Val Asn Gly Asp Leu  
 165 170 175

Arg Leu Gln Gln Lys Gln Pro Leu Ser Cys Gly Gly Leu Asp Ala Arg  
 180 185 190

Tyr Asn Ile Ser Val Ile Asn Gly Thr Ser Pro Phe Ala Tyr Asp Tyr  
 195 200 205

Asp Leu Thr His Ile Val Ala Ala Tyr Gln Glu Arg Asn Val Thr Thr  
 210 215 220

Val Leu Asn Asp Pro Asn Pro Ile Trp Leu Val Gly Arg Ala Ala Asp  
 225 230 235 240

Ala Pro Phe Val Ile Asn Ala Ile Ile Arg Tyr Pro Val Glu Val Ile  
 245 250 255

Ser Tyr Gln Pro Gly Phe Trp Glu Met Val Lys Phe Ala Trp Val Gln  
 260 265 270

Tyr Val Ser Ile Leu Leu Ile Phe Leu Trp Val Phe Glu Arg Ile Lys  
 275 280 285

Ile Phe Val Phe Gln Asn Gln Val Val Thr Thr Ile Pro Val Thr Val  
 290 295 300

Thr Pro Arg Gly Asp Leu Cys Lys Glu His Leu Ser  
 305 310 315

<210> 1395  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1395  
 Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met  
 1 5 10 15

Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg  
 20 25 30

Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly  
 35 40 45

Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg  
 50 55 60

Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Xaa His Gln Lys  
 65 70 75 80

Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser  
 85 90 95

Leu Ile Ala Ser Thr Ala Val  
 100

<210> 1396  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 1396  
 Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met  
 1 5 10 15

Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg  
 20 25 30

Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly  
 35 40 45

Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg  
 50 55 60

Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Ala His Gln Lys  
 65 70 75 80

Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser  
85 90 95

Leu Ile Ala Ser Thr Ala Val  
100

<210> 1397

<211> 125

<212> PRT ,

<213> Homo sapiens

<400> 1397

<400> 1397  
Met Cys Val Trp Phe Cys Leu Phe Ala Cys Leu Phe Ala Cys Leu Phe  
1 5 10 15

Phe Glu Thr Glu Ser His Ser Val Ala Gln Ala Gly Val Gln Trp Leu  
20 25 30

Asp Leu Ser Ser Leu Gln Gln Pro Pro Pro Pro Gly Phe Lys Cys Phe  
35 40 45

Ser Cys Leu Cys Leu Leu Ser Ser Trp Asp Tyr Arg Arg Ala Cys His  
50 55 60

His Thr Arg Ile Ile Phe Val Phe Leu Val Glu Met Gly Phe His His  
65 70 75 80

Val Asp Gln Ala Asp Leu Glu Leu Leu Thr Ser Ser Asp Pro Pro Ala  
85 90 95

Leu Ala Ser Arg Ser Ala Gly Ile Thr Gly Val Ser His His Thr Pro  
100 105 110

Pro Ala Cys Leu Val Phe Lys Phe Leu Phe Leu Gly Ser  
115 120 125

<210> 1398

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

<221> SITE

<222> (106)

<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1398

<400> 1398  
Ala Pro Val Leu Leu Leu Pro Ser Ser Cys Trp Gln Phe Trp Val Leu  
1 5 10 15



Gly Phe Phe Phe Phe Arg Gln Ser Leu Thr Pro Ser Pro Gly Trp Lys  
                     20                    25                    30  
 Tyr Ser Gly Ala Val Ser Ala His Cys Ser Leu Arg Leu Pro Gly Ser  
                     35                    40                    45  
 Asn Asp Pro Leu Ala Ser Ala Ser Gln Leu Ala Gly Thr Thr Gly Ala  
                     50                    55                    60  
 His His His Gly Gln Leu Ile Phe Val Phe Leu Val Glu Met Gly Phe  
                     65                    70                    75                    80  
 His His Ile Ala Gln Ala Gly Leu Lys Leu Xaa Thr Ser Ser Asp Leu  
                     85                    90                    95  
 Leu Thr Ser Ala Phe Gln Ser Ala Gly Xaa Ile Tyr Ile Leu Asn Lys  
                     100                    105                    110

<210> 1399  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 1399  
 Met Cys Val Trp Phe Cys Leu Phe Ala Cys Leu Phe Ala Cys Leu Phe  
                     1                    5                    10                    15  
 Phe Glu Thr Glu Ser His Ser Val Ala Gln Ala Gly Val Gln Trp Leu  
                     20                    25                    30  
 Asp Leu Ser Ser Leu Gln Gln Pro Pro Pro Pro Gly Phe Lys Cys Phe  
                     35                    40                    45  
 Ser Cys Leu Cys Leu Leu Ser Ser Trp Asp Tyr Arg Arg Ala Cys His  
                     50                    55                    60  
 His Thr Arg Ile Ile Phe Val Phe Leu Val Glu Met Gly Phe His His  
                     65                    70                    75                    80  
 Val Asp Gln Ala Asp Leu Glu Leu Leu Thr Ser Ser Asp Pro Pro Ala  
                     85                    90                    95  
 Leu Ala Ser Arg Ser Ala Gly Ile Thr Gly Val Ser His His Thr Pro  
                     100                    105                    110  
 Pro Ala Cys Leu Phe Phe Lys Phe Leu Phe Leu Gly Ser  
                     115                    120                    125

<210> 1400  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1400

Met Glu Leu Gly Cys Trp Thr His Trp Gly Ser Leu Phe Phe Ser Ser  
 1 5 10 15

Phe Ser Ser Arg Pro Cys Gln Glu Ser Thr Gln Ser Leu Met Lys Pro  
 20 25 30

Ala Leu Glu Gln Ser Gly Ile Ser Cys Val Gly Ser Ala Val Asn Met  
 35 40 45

Ile Arg Leu Ser Ala Ser Ala Pro Glu Arg Gly Lys Ser Trp Val Ile  
 50 55 60

Pro Ser Leu Ala Ala Gly Met Arg Arg Met Ser Val Thr Pro Ala  
 65 70 75

&lt;210&gt; 1401

&lt;211&gt; 455

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (178)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1401

Xaa Thr Gly Gln Arg Cys Glu Asn Leu Leu Glu Glu Arg Asn Cys Ser  
 1 5 10 15

Xaa Pro Gly Gly Pro Val Asn Gly Tyr Gln Lys Ile Thr Gly Gly Pro  
 20 25 30

Gly Leu Ile Asn Gly Arg His Ala Lys Ile Gly Thr Val Val Ser Phe  
 35 40 45

Phe Cys Asn Asn Ser Tyr Val Leu Ser Gly Asn Glu Lys Arg Thr Cys  
 50 55 60

Gln Gln Asn Gly Glu Trp Ser Gly Lys Gln Pro Ile Cys Ile Lys Ala  
 65 70 75 80

Cys Arg Glu Pro Lys Ile Ser Asp Leu Val Arg Arg Arg Val Leu Pro

85	90	95
Met Gln Val Gln Ser Arg Xaa Thr Pro Leu His Gln Leu Tyr Ser Ala		
100	105	110
Ala Phe Ser Lys Gln Lys Leu Gln Ser Ala Pro Thr Lys Lys Pro Ala		
115	120	125
Leu Pro Phe Gly Asp Leu Pro Met Gly Tyr Gln His Leu His Thr Gln		
130	135	140
Leu Gln Tyr Glu Cys Ile Ser Pro Phe Tyr Arg Arg Leu Gly Ser Ser		
145	150	155
Arg Arg Thr Cys Leu Arg Thr Gly Lys Trp Ser Gly Arg Ala Pro Ser		
165	170	175
Cys Xaa Pro Ile Cys Gly Lys Ile Glu Asn Ile Thr Ala Pro Lys Thr		
180	185	190
Gln Gly Leu Arg Trp Pro Trp Gln Ala Ala Ile Tyr Arg Arg Thr Ser		
195	200	205
Gly Val His Asp Gly Ser Leu His Lys Gly Ala Trp Phe Leu Val Cys		
210	215	220
Ser Gly Ala Leu Val Asn Glu Arg Thr Val Val Val Ala Ala His Cys		
225	230	235
Val Thr Asp Leu Gly Lys Val Thr Met Ile Lys Thr Ala Asp Leu Lys		
245	250	255
Val Val Leu Gly Lys Phe Tyr Arg Asp Asp Arg Asp Glu Lys Thr		
260	265	270
Ile Gln Ser Leu Gln Ile Ser Ala Ile Ile Leu His Pro Asn Tyr Asp		
275	280	285
Pro Ile Leu Leu Asp Ala Asp Ile Ala Ile Leu Lys Leu Leu Asp Lys		
290	295	300
Ala Arg Ile Ser Thr Arg Val Gln Pro Ile Cys Leu Ala Ala Ser Arg		
305	310	315
Asp Leu Ser Thr Ser Phe Gln Glu Ser His Ile Thr Val Ala Gly Trp		
325	330	335
Asn Val Leu Ala Asp Val Arg Ser Pro Gly Phe Lys Asn Asp Thr Leu		
340	345	350
Arg Ser Gly Val Val Ser Val Val Asp Ser Leu Leu Cys Glu Glu Gln		
355	360	365
His Glu Asp His Gly Ile Pro Val Ser Val Thr Asp Asn Met Phe Cys		
370	375	380
Ala Ser Trp Glu Pro Thr Ala Pro Ser Asp Ile Cys Thr Ala Glu Thr		
385	390	395
Gly Gly Ile Ala Ala Val Ser Phe Pro Gly Arg Ala Ser Pro Glu Pro		

840

Pro Leu Asn Ala His Cys Glu Trp Thr Ile His Ala Lys Pro Gly Phe  
 145 150 155 160  
 Val Ile Gln Leu Arg Phe Val Met Leu Ser Leu Glu Phe Asp Tyr Met  
 165 170 175  
 Cys Gln Tyr Asp Tyr Val Glu Val Arg Asp Gly Asp Asn Arg Asp Gly  
 180 185 190  
 Gln Ile Ile Lys Arg Val Cys Gly Asn Glu Arg Pro Ala Pro Ile Gln  
 195 200 205  
 Ser Ile Gly Ser Ser Leu His Val Leu Phe His Ser Asp Gly Ser Lys  
 210 215 220  
 Asn Phe Asp Gly Phe His Ala Ile Tyr Glu Glu Ile Thr Ala Cys Ser  
 225 230 235 240  
 Ser Ser Pro Cys Phe His Asp Gly Thr Cys Val Leu Asp Lys Ala Gly  
 245 250 255  
 Ser Tyr Lys Cys Ala Cys Leu Ala Gly Tyr Thr Gly Gln Arg Cys Glu  
 260 265 270  
 Asn Leu Leu Glu Ala Gly Lys Ser Lys Ile Xaa Ala Ser Glu Asp Ser  
 275 280 285  
 Leu Ser Val Leu Glu Glu Arg Xaa Cys Xaa Asp Pro Gly Gly Pro Val  
 290 295 300  
 Asn Gly Tyr Gln Lys Ile Thr Gly Gly Pro Gly Leu Ile Asn Gly Arg  
 305 310 315 320  
 His Ala Lys

<210> 1403  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 1403  
 Met Ala Arg Ser Trp Leu Thr Ala Thr Ser Ala Ser Arg Val Gln Ala  
 1 5 10 15  
 Ile Leu Leu Leu Gly Leu Gln His Met Pro Pro Cys Pro Asp Tyr Phe  
 20 25 30  
 Phe Val Phe Val Val Glu Thr Gly Phe His His Val Ser Gln Ala Gly  
 35 40 45  
 Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Ala Ser Ala Ser His Thr  
 50 55 60  
 Ala Gly Ile Thr Gly Met Ser His Arg Ser Trp Pro Leu Phe Leu Phe  
 65 70 75 80

<210> 1404  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (114)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1404  
 Lys Leu Arg Leu Arg Glu Val Lys Ser Ile Ala Gln Gly His Val Ala  
     1                    5                    10                    15  
 Arg Ile Trp Gln Ser His Asp Ser Asp Pro Gly Leu Leu Ile Leu Ile  
           20                    25                    30  
 Pro Val Ser Phe Leu Ala Tyr His Val Ala Ser Lys Asp Cys Ser Ser  
           35                    40                    45  
 Leu Phe Thr Arg Lys Leu Phe Leu Pro Asn Leu His Leu His Leu Thr  
           50                    55                    60  
 Pro Ser Phe Leu Lys His Tyr Val Cys Val Phe Ile Ser Ile Ile Phe  
           65                    70                    75                    80  
 Ile Val Phe Gly Ile His Val Leu Val Cys Val Trp Lys Lys Asn Leu  
                     85                    90                    95  
 Phe Tyr Gln Leu Ala Leu Gly Pro Thr Trp Lys Lys Lys Ser Leu Asn  
           100                    105                    110  
 Val Xaa Ala Met Tyr Ser Leu Lys Met  
           115                    120

<210> 1405  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 1405  
 Met Ala Arg Ser Trp Leu Thr Ala Thr Ser Ala Ser Arg Val Gln Ala  
     1                    5                    10                    15  
 Ile Leu Leu Leu Gly Leu Gln His Met Pro Pro Cys Pro Asp Tyr Phe  
           20                    25                    30  
 Phe Val Phe Val Val Glu Thr Gly Phe His His Val Ser Gln Ala Gly  
           35                    40                    45  
 Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Ala Ser Ala Ser His Thr  
           50                    55                    60

Ala Gly Ile Thr Gly Met Ser His Arg Ser Trp Pro Leu Phe Leu Phe  
 65 70 75 80

<210> 1406

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1406

Ile Trp Met His Phe Ile Ser Phe Leu Tyr Pro Ile Ala Leu Ala Thr  
 1 5 10 15

Thr Ser Ser Thr Val Leu Asn Arg Ser Gly Glu Cys Gly His Pro Cys  
 20 25 30

Leu Val Pro Val Leu Arg Glu Asn Ala Phe Ser Leu Ser Pro Phe Gly  
 35 40 45

Met Met Phe Ala Val Gly Leu Ser Tyr Met Ala Phe Phe Thr Leu Arg  
 50 55 60

Tyr Val Pro Ser Val Pro Ile Leu Leu Arg Val Phe Ile Ile Gln Glu  
 65 70 75 80

Cys Xaa Phe

<210> 1407

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1407

Met His Phe Ile Ser Phe Leu Tyr Pro Ile Ala Leu Ala Thr Thr Ser  
 1 5 10 15

Ser Thr Val Leu Asn Arg Ser Gly Glu Cys Gly His Pro Cys Leu Val  
 20 25 30

Pro Val Leu Arg Glu Asn Ala Phe Ser Leu Ser Pro Phe Gly Met Met  
 35 40 45

Phe Ala Val Gly Leu Ser Tyr Met Ala Phe Phe Thr Leu Arg Tyr Val  
 50 55 60

Pro Ser Val Pro Ile Leu Leu Arg Val Phe Ile Ile Gln Glu Cys Trp  
 65 70 75 80

Ile Leu Ser Asn Ala Phe Ser Ala Ser Gly Glu Met Ile Ile  
                             85                            90

<210> 1408  
 <211> 94  
 <212> PRT  
 <213> Homo sapiens

<400> 1408  
 Met His Phe Ile Ser Phe Leu Tyr Pro Ile Ala Leu Ala Thr Thr Ser  
   1                            5                            10                            15  
 Ser Thr Val Leu Asn Arg Ser Gly Glu Cys Gly His Pro Cys Leu Val  
                             20                            25                            30  
 Pro Val Leu Arg Glu Asn Ala Phe Ser Leu Ser Pro Phe Gly Met Met  
                             35                            40                            45  
 Phe Ala Val Gly Leu Ser Tyr Met Ala Phe Phe Thr Leu Arg Tyr Val  
                             50                            55                            60  
 Pro Ser Val Pro Ile Leu Leu Arg Val Phe Ile Ile Gln Glu Cys Trp  
   65                            70                            75                            80  
 Ile Leu Ser Asn Ala Phe Ser Ala Ser Gly Glu Met Ile Ile  
                             85                            90

<210> 1409  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 1409  
 Met Ile Leu Ile Arg Lys Leu Phe Leu Arg Arg Cys His Trp Gly Gly  
   1                            5                            10                            15  
 Trp Leu Leu Pro Pro Ala Arg Ala Ser Cys Ser Gly Lys His Ser Leu  
                             20                            25                            30  
 Ser His Ser Cys Arg Gly Pro Arg Val Gln Arg Pro Pro His Pro Arg  
                             35                            40                            45  
 Phe Trp Ala Gly Thr Leu Ala Pro Gly Pro Cys Pro Gly Leu Trp Cys  
                             50                            55                            60  
 Leu Pro Gly Leu Val Gln Val Asp Val Leu Ala Ala Gly Arg Cys Asp  
   65                            70                            75                            80  
 His Leu Ser Cys Leu Pro Pro Leu Cys Pro Gln Ala Phe Leu Leu  
                             85                            90                            95

<210> 1410  
 <211> 92  
 <212> PRT



&lt;213&gt; Homo sapiens

&lt;400&gt; 1410

Met Pro Gly Cys Val Phe Cys Phe Leu Thr Leu Leu Phe His Ser Leu  
 1 5 10 15

Ser Val Gly Gln Tyr Cys Cys Leu Ile Cys Val Cys Phe Val Leu Tyr  
 20 25 30

Val Tyr Thr Gln Ile His Thr Arg Ile His Ile His Thr His Lys His  
 35 40 45

Phe Phe Phe Pro Trp Arg Gln Gly Ile Ala Leu Ser Pro Arg Leu Glu  
 50 55 60

Tyr Ser Ser Ala Ile Met Thr His Arg Leu Ile Ala Ala Leu Ala Ser  
 65 70 75 80

Gln Ala Gln Ala Ile Leu Pro Pro Gln Pro Ser Glu  
 85 90

&lt;210&gt; 1411

&lt;211&gt; 225

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (101)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1411

Met Ile His Val Arg His Cys Thr Pro Ile Pro Ala Leu Leu Val Cys  
 1 5 10 15

Cys Gly Ala Thr Ala Val Ile Met Leu Val Gly Asp Thr Tyr Thr Leu  
 20 25 30

Ile Asn Tyr Val Ser Phe Ile Asn Tyr Leu Cys Tyr Gly Val Thr Ile  
 35 40 45

Leu Gly Leu Leu Leu Leu Arg Trp Arg Arg Pro Ala Leu His Arg Pro  
 50 55 60

Ile Xaa Val Asn Leu Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala  
 65 70 75 80

Phe Leu Leu Val Phe Ser Phe Ile Ser Glu Pro Met Val Cys Gly Val  
 85 90 95

Gly Val Ile Ile Xaa Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val  
 100 105 110

Phe Trp Arg Ser Lys Pro Lys Cys Val His Arg Leu Thr Glu Ser Met  
115 120 125

Thr His Trp Gly Gln Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala  
130 135 140

Pro Glu Glu Glu Glu Asn Ala Pro Ala His Pro Pro Cys Cys Leu Pro  
145 150 155 160

Gln Thr Ser Pro Arg Ser His Asn Glu Ile Phe Val Glu Thr Glu Ala  
165 170 175

Val Val Ser Val Tyr Met Leu Phe Ile Glu Glu Val Phe Trp Gln Lys  
180 185 190

Ser Phe Val Leu Phe Phe Ser Gly Lys Lys Arg Lys Lys Ile Arg Leu  
195 200 205

Ser Glu Ala Cys Phe Lys Glu Ala Leu Lys Cys Gly Leu Gly Phe Leu  
210 215 220

Ser  
225

<210> 1412

<211> 172

<212> PRT

<213> Homo sapiens

<400> 1412

Met Ile His Val Arg His Cys Thr Pro Ile Pro Ala Leu Leu Val Cys  
1 5 10 15

Cys Gly Ala Thr Ala Val Ile Met Leu Val Gly Asp Thr Tyr Thr Leu  
20 25 30

Ile Asn Tyr Val Ser Phe Ile Asn Tyr Leu Cys Tyr Gly Val Thr Ile  
35 40 45

Leu Gly Leu Leu Leu Leu Arg Trp Arg Arg Pro Ala Leu His Arg Pro  
50 55 60

Ile Lys Val Asn Leu Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala  
65 70 75 80

Phe Leu Leu Val Phe Ser Phe Ile Ser Glu Pro Met Val Cys Gly Val  
85 90 95

Gly Val Ile Ile Ile Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val  
100 105 110

Phe Trp Arg Ser Lys Pro Lys Cys Val His Arg Leu Thr Glu Ser Met  
115 120 125

Thr His Trp Gly Gln Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala  
130 135 140

Pro Glu Glu Glu Glu Glu Trp Pro Leu Pro Thr Leu Pro Ala Ala Cys

847

195

200

205

Ser Glu Ala Cys Phe Lys Glu Ala Leu Lys Cys Gly Leu Gly Phe Leu  
 210 215 220

Ser  
 225

&lt;210&gt; 1414

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1414

Lys Asp Lys Cys Ile Leu Leu Lys Arg Gln Ser Xaa Thr His Glu Glu  
 1 5 10 15

Gln Cys Lys Leu Lys Pro Asn Gln Arg Leu Gly Val Ala Ala Met Pro  
 20 25 30

Val Ile Pro Ala Leu Trp Glu Ala Glu Val Gly Arg Leu Leu Glu Ile  
 35 40 45

Arg Ser Leu Ser Leu Gly Asn Ile Val Lys Pro Cys Leu Tyr Lys Lys  
 50 55 60

Tyr Lys Asn  
 65

&lt;210&gt; 1415

&lt;211&gt; 587

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1415

Met Arg Pro Arg Gly Leu Pro Pro Leu Leu Val Val Leu Leu Gly Cys  
 1 5 10 15

Trp Ala Ser Val Ser Ala Gln Thr Asp Ala Thr Pro Ala Val Thr Thr  
 20 25 30

Glu Gly Leu Asn Ser Thr Glu Ala Ala Leu Ala Thr Phe Gly Thr Phe  
 35 40 45

Pro Ser Thr Arg Pro Pro Gly Thr Pro Arg Ala Pro Gly Pro Ser Ser  
 50 55 60

Gly Pro Arg Pro Thr Pro Val Thr Asp Val Ala Val Leu Cys Val Cys  
 65 70 75 80

Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp

85 90 95  
 Cys Ser Ser Val Asp Phe Ser Val Phe Ser Ala Cys Ser Val Pro Val  
 100 105 110  
 Val Thr Gly Asp Ser Gln Phe Cys Ser Gln Lys Ala Val Ile Tyr Ser  
 115 120 125  
 Leu Asn Phe Thr Ala Asn Pro Pro Gln Arg Val Phe Glu Leu Val Asp  
 130 135 140  
 Gln Ile Asn Pro Ser Ile Phe Cys Ile His Ile Thr Asn Tyr Lys Pro  
 145 150 155 160  
 Ala Leu Ser Phe Ile Asn Pro Glu Val Pro Asp Glu Asn Asn Phe Asp  
 165 170 175  
 Thr Leu Met Lys Thr Ser Asp Gly Phe Thr Leu Asn Ala Glu Ser Tyr  
 180 185 190  
 Val Ser Phe Thr Thr Lys Leu Asp Ile Pro Thr Ala Ala Lys Tyr Glu  
 195 200 205  
 Tyr Gly Val Pro Leu Gln Thr Ser Asp Ser Phe Leu Arg Phe Pro Ser  
 210 215 220  
 Ser Leu Thr Ser Ser Leu Cys Thr Asp Asn Asn Pro Ala Ala Phe Leu  
 225 230 235 240  
 Val Asn Gln Ala Val Lys Cys Thr Arg Lys Ile Asn Leu Glu Gln Cys  
 245 250 255  
 Glu Glu Ile Glu Ala Leu Ser Met Ala Phe Tyr Ser Ser Pro Glu Ile  
 260 265 270  
 Leu Arg Val Pro Asp Ser Arg Lys Lys Val Pro Ile Thr Val Gln Ser  
 275 280 285  
 Ile Val Ile Gln Ser Leu Asn Lys Thr Leu Thr Arg Arg Glu Asp Thr  
 290 295 300  
 Asp Val Leu Gln Pro Thr Leu Val Asn Ala Gly His Phe Ser Leu Cys  
 305 310 315 320  
 Val Asn Val Val Leu Glu Val Lys Tyr Ser Leu Thr Tyr Thr Asp Ala  
 325 330 335  
 Gly Glu Val Thr Lys Ala Asp Leu Ser Phe Val Leu Gly Thr Val Ser  
 340 345 350  
 Ser Val Val Val Pro Leu Gln Gln Lys Phe Glu Ile His Phe Leu Gln  
 355 360 365  
 Glu Asn Thr Gln Pro Val Pro Leu Ser Gly Asn Pro Gly Tyr Val Val  
 370 375 380  
 Gly Leu Pro Leu Ala Ala Gly Phe Gln Pro His Lys Gly Ser Gly Ile  
 385 390 395 400  
 Ile Gln Thr Thr Asn Arg Tyr Gly Gln Leu Thr Ile Leu His Ser Thr  
 849

405                      410                      415  
 Thr Glu Gln Asp Cys Leu Ala Leu Glu Gly Val Arg Thr Pro Val Leu  
                          420                      425                      430  
 Phe Gly Tyr Thr Met Gln Ser Gly Cys Lys Leu Arg Leu Thr Gly Ala  
                          435                      440                      445  
 Leu Pro Cys Gln Leu Val Ala Gln Lys Val Lys Ser Leu Leu Trp Gly  
                          450                      455                      460  
 Gln Gly Phe Pro Asp Tyr Val Ala Pro Phe Gly Asn Ser Gln Ala Gln  
                          465                      470                      475                      480  
 Asp Met Leu Asp Trp Val Pro Ile His Phe Ile Thr Gln Ser Phe Asn  
                          485                      490                      495  
 Arg Lys Asp Ser Cys Gln Leu Pro Gly Ala Leu Val Ile Glu Val Lys  
                          500                      505                      510  
 Trp Thr Lys Tyr Gly Ser Leu Leu Asn Pro Gln Ala Lys Ile Val Asn  
                          515                      520                      525  
 Val Thr Ala Asn Leu Ile Ser Ser Ser Phe Pro Glu Ala Asn Ser Gly  
                          530                      535                      540  
 Asn Glu Arg Thr Ile Leu Ile Ser Thr Ala Val Thr Phe Val Asp Val  
                          545                      550                      555                      560  
 Ser Ala Pro Ala Glu Ala Gly Phe Arg Ala Pro Pro Ala Ile Asn Ala  
                          565                      570                      575  
 Arg Leu Pro Phe Asn Phe Phe Phe Pro Phe Val  
                          580                      585

<210> 1416  
 <211> 157  
 <212> PRT  
 <213> Homo sapiens

<400> 1416  
 Met Arg Pro Arg Gly Leu Pro Pro Leu Leu Val Val Leu Leu Gly Cys  
                          1                      5                      10                      15  
 Trp Ala Ser Val Ser Ala Gln Thr Asp Ala Thr Pro Ala Val Thr Thr  
                          20                      25                      30  
 Glu Gly Leu Asn Ser Thr Glu Ala Ala Leu Ala Thr Phe Gly Thr Phe  
                          35                      40                      45  
 Pro Ser Thr Arg Pro Pro Gly Thr Pro Arg Ala Pro Gly Pro Ser Ser  
                          50                      55                      60  
 Gly Pro Arg Pro Thr Pro Val Thr Asp Val Ala Val Leu Cys Val Cys  
                          65                      70                      75                      80  
 Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp  
                          85                      90                      95

Cys Ser Ser Val Asp Phe Ser Val Phe Ser Ala Cys Ser Val Pro Val  
 100 105 110  
 Val Thr Gly Asp Ser Gln Phe Cys Ser Gln Lys Ala Val Ile Tyr Ser  
 115 120 125  
 Leu Asn Phe Thr Ala Asn Pro Pro Gln Arg Val Phe Glu Leu Val Asp  
 130 135 140  
 Gln Ile Asn Pro Ser Ile Phe Cys Ile His Ile Thr Asn  
 145 150 155

<210> 1417  
 <211> 587  
 <212> PRT  
 <213> Homo sapiens

<400> 1417  
 Met Arg Pro Arg Gly Leu Pro Pro Leu Leu Val Val Leu Leu Gly Cys  
 1 5 10 15  
 Trp Ala Ser Val Ser Ala Gln Thr Asp Ala Thr Pro Ala Val Thr Thr  
 20 25 30  
 Glu Gly Leu Asn Ser Thr Glu Ala Ala Leu Ala Thr Phe Gly Thr Phe  
 35 40 45  
 Pro Ser Thr Arg Pro Pro Gly Thr Pro Arg Ala Pro Gly Pro Ser Ser  
 50 55 60  
 Gly Pro Arg Pro Thr Pro Val Thr Asp Val Ala Val Leu Cys Val Cys  
 65 70 75 80  
 Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp  
 85 90 95  
 Cys Ser Ser Val Asp Phe Ser Val Phe Ser Ala Cys Ser Val Pro Val  
 100 105 110  
 Val Thr Gly Asp Ser Gln Phe Cys Ser Gln Lys Ala Val Ile Tyr Ser  
 115 120 125  
 Leu Asn Phe Thr Ala Asn Pro Pro Gln Arg Val Phe Glu Leu Val Asp  
 130 135 140  
 Gln Ile Asn Pro Ser Ile Phe Cys Ile His Ile Thr Asn Tyr Lys Pro  
 145 150 155 160  
 Ala Leu Ser Phe Ile Asn Pro Glu Val Pro Asp Glu Asn Asn Phe Asp  
 165 170 175  
 Thr Leu Met Lys Thr Ser Asp Gly Phe Thr Leu Asn Ala Glu Ser Tyr  
 180 185 190  
 Val Ser Phe Thr Thr Lys Leu Asp Ile Pro Thr Ala Ala Lys Tyr Glu  
 195 200 205

Tyr Gly Val Pro Leu Gln Thr Ser Asp Ser Phe Leu Arg Phe Pro Ser  
 210 215 220  
 Ser Leu Thr Ser Ser Leu Cys Thr Asp Asn Asn Pro Ala Ala Phe Leu  
 225 230 235 240  
 Val Asn Gln Ala Val Lys Cys Thr Arg Lys Ile Asn Leu Glu Gln Cys  
 245 250 255  
 Glu Glu Ile Glu Ala Leu Ser Met Ala Phe Tyr Ser Ser Pro Glu Ile  
 260 265 270  
 Leu Arg Val Pro Asp Ser Arg Lys Lys Val Pro Ile Thr Val Gln Ser  
 275 280 285  
 Ile Val Ile Gln Ser Leu Asn Lys Thr Leu Thr Arg Arg Glu Asp Thr  
 290 295 300  
 Asp Val Leu Gln Pro Thr Leu Val Asn Ala Gly His Phe Ser Leu Cys  
 305 310 315 320  
 Val Asn Val Val Leu Glu Val Lys Tyr Ser Leu Thr Tyr Thr Asp Ala  
 325 330 335  
 Gly Glu Val Thr Lys Ala Asp Leu Ser Phe Val Leu Gly Thr Val Ser  
 340 345 350  
 Ser Val Val Val Pro Leu Gln Gln Lys Phe Glu Ile His Phe Leu Gln  
 355 360 365  
 Glu Asn Thr Gln Pro Val Pro Leu Ser Gly Asn Pro Gly Tyr Val Val  
 370 375 380  
 Gly Leu Pro Leu Ala Ala Gly Phe Gln Pro His Lys Gly Ser Gly Ile  
 385 390 395 400  
 Ile Gln Thr Thr Asn Arg Tyr Gly Gln Leu Thr Ile Leu His Ser Thr  
 405 410 415  
 Thr Glu Gln Asp Cys Leu Ala Leu Glu Gly Val Arg Thr Pro Val Leu  
 420 425 430  
 Phe Gly Tyr Thr Met Gln Ser Gly Cys Lys Leu Arg Leu Thr Gly Ala  
 435 440 445  
 Leu Pro Cys Gln Leu Val Ala Gln Lys Val Lys Ser Leu Leu Trp Gly  
 450 455 460  
 Gln Gly Phe Pro Asp Tyr Val Ala Pro Phe Gly Asn Ser Gln Ala Gln  
 465 470 475 480  
 Asp Met Leu Asp Trp Val Pro Ile His Phe Ile Thr Gln Ser Phe Asn  
 485 490 495  
 Arg Lys Asp Ser Cys Gln Leu Pro Gly Ala Leu Val Ile Glu Val Lys  
 500 505 510  
 Trp Thr Lys Tyr Gly Ser Leu Leu Asn Pro Gln Ala Lys Ile Val Asn  
 515 520 525



Val Thr Ala Asn Leu Ile Ser Ser Ser Phe Pro Glu Ala Asn Ser Gly  
 530 535 540

Asn Glu Arg Thr Ile Leu Ile Ser Thr Ala Val Thr Phe Val Asp Val  
 545 550 555 560

Ser Ala Pro Ala Glu Ala Gly Phe Arg Ala Pro Pro Ala Ile Asn Ala  
 565 570 575

Arg Leu Pro Phe Asn Phe Phe Phe Pro Phe Val  
 580 585

<210> 1418  
 <211> 137  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (117)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (133)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (137)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1418  
 Met Val Glu Glu Pro Gly Arg Phe Leu Pro Leu Trp Leu His Ile Leu  
 1 5 10 15

Leu Ile Thr Val Leu Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn  
 20 25 30

Leu Gly Leu Met Ala Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn  
 35 40 45

Cys Gly Thr Xaa Lys Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile  
 50 55 60

Arg Arg Lys Gly Asn Tyr Leu Leu Cys Ser Leu Leu Leu Gly Asn Val  
 65 70 75 80

Leu Val Asn Thr Ser Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser  
 85 90 95

Gly Leu Met Ala Val Ala Ser Phe Thr Ile Gly Ile Cys His Leu Trp  
 100 105 110

Gly Asp Pro Thr Xaa Gly Pro Cys Ala Pro Arg His Gly Ala Trp Leu  
 115 120 125

Val Gly Cys Gln Xaa Pro Cys Phe Xaa  
 130 135

<210> 1419

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1419

Leu Lys Pro Phe Ser Gln Thr Pro Tyr Phe Glu Ser Pro Ser Phe Ser  
 1 5 10 15

Pro Ser Trp Gly Trp Arg Gln Glu Asp Met Trp Glu Ala Thr Glu Ala  
 20 25 30

Gly Ser Leu Cys Pro Leu Leu Cys Gly Trp Gln Gly Ser Pro Gly Leu  
 35 40 45

Ile His Pro Leu Met Glu Pro Gln Glu Arg Arg Ala Pro Pro Lys Gly  
 50 55 60

Met Gln Leu Ala Ala Pro Leu Ser His Thr Cys Asp Pro Ser Val Arg  
 65 70 75 80

Gly His Pro Ala Leu Ala Glu Val Ser Xaa Thr Val Leu Arg Ala Leu  
 85 90 95

Pro Ser Cys Glu Phe Leu Pro Trp Arg Leu Phe Pro Gly Ala Glu Ser  
 100 105 110

Gly Pro Ala Ala Lys Leu Gln Ala Ser Gln Gly Trp Gly Gly Cys Gly  
 115 120 125

Thr Lys Val His Val Gly Pro Ser Thr Gly Cys Ser Arg Ser Trp Val  
 130 135 140

Pro Arg Ala Trp Gln Val Lys Leu Cys Arg Pro Ser Ala  
 145 150 155

<210> 1420

<211> 631

<212> PRT

<213> Homo sapiens

<400> 1420

Met Lys Leu Tyr Ala Leu Cys Thr Arg Ala Gln Pro Asp Gly Pro Trp  
 1 5 10 15

Leu Lys Trp Thr Asp Lys Asp Ser Leu Leu Phe Met Val Glu Glu Pro  
 20 25 30  
 Gly Arg Phe Leu Pro Leu Trp Leu His Ile Leu Leu Ile Thr Val Leu  
 35 40 45  
 Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn Leu Gly Leu Met Ala  
 50 55 60  
 Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn Cys Gly Thr Glu Lys  
 65 70 75 80  
 Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile Arg Arg Lys Gly Asn  
 85 90 95  
 Tyr Leu Leu Cys Ser Leu Leu Leu Gly Asn Val Leu Val Asn Thr Ser  
 100 105 110  
 Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser Gly Leu Met Ala Val  
 115 120 125  
 Ala Ser Ser Thr Ile Gly Ile Val Ile Phe Gly Glu Ile Leu Pro Gln  
 130 135 140  
 Ala Leu Cys Ser Arg His Gly Leu Ala Val Gly Ala Asn Thr Ile Leu  
 145 150 155 160  
 Leu Thr Lys Phe Phe Met Leu Leu Thr Phe Pro Leu Ser Phe Pro Ile  
 165 170 175  
 Ser Lys Leu Leu Asp Phe Phe Leu Gly Gln Glu Ile Arg Thr Val Tyr  
 180 185 190  
 Asn Arg Glu Lys Leu Met Glu Met Leu Lys Val Thr Glu Pro Tyr Asn  
 195 200 205  
 Asp Leu Val Lys Glu Glu Leu Asn Met Ile Gln Gly Ala Leu Glu Leu  
 210 215 220  
 Arg Thr Lys Thr Val Glu Asp Ile Met Thr Gln Leu Gln Asp Cys Phe  
 225 230 235 240  
 Met Ile Arg Ser Asp Ala Ile Leu Asp Phe Asn Thr Met Ser Glu Ile  
 245 250 255  
 Met Glu Ser Gly Tyr Thr Arg Ile Pro Val Phe Glu Asp Glu Gln Ser  
 260 265 270  
 Asn Ile Val Asp Ile Leu Tyr Val Lys Asp Leu Ala Phe Val Asp Pro  
 275 280 285  
 Asp Asp Cys Thr Pro Leu Lys Thr Ile Thr Arg Phe Tyr Asn His Pro  
 290 295 300  
 Val His Phe Val Phe His Asp Thr Lys Leu Asp Ala Met Leu Glu Glu  
 305 310 315 320  
 Phe Lys Lys Gly Lys Ser His Leu Ala Ile Val Gln Lys Val Asn Asn  
 325 330 335

Glu Gly Glu Gly Asp Pro Phe Tyr Glu Val Leu Gly Leu Val Thr Leu  
 340 345 350  
 Glu Asp Val Ile Glu Glu Ile Ile Lys Ser Glu Ile Leu Asp Glu Ser  
 355 360 365  
 Asp Met Tyr Thr Asp Asn Arg Ser Arg Lys Arg Val Ser Glu Lys Asn  
 370 375 380  
 Lys Arg Asp Phe Ser Ala Phe Lys Asp Ala Asp Asn Glu Leu Lys Val  
 385 390 395 400  
 Lys Ile Ser Pro Gln Leu Leu Leu Ala Ala His Arg Phe Leu Ala Thr  
 405 410 415  
 Glu Val Ser Gln Phe Ser Pro Ser Leu Ile Ser Glu Lys Ile Leu Leu  
 420 425 430  
 Arg Leu Leu Lys Tyr Pro Asp Val Ile Gln Glu Leu Lys Phe Asp Glu  
 435 440 445  
 His Asn Lys Tyr Tyr Ala Arg His Tyr Leu Tyr Thr Arg Asn Lys Pro  
 450 455 460  
 Ala Asp Tyr Phe Ile Leu Ile Leu Gln Gly Lys Val Glu Val Glu Ala  
 465 470 475 480  
 Gly Lys Glu Asn Met Lys Phe Glu Thr Gly Ala Phe Ser Tyr Tyr Gly  
 485 490 495  
 Thr Met Ala Leu Thr Ser Val Pro Ser Asp Arg Ser Pro Ala His Pro  
 500 505 510  
 Thr Pro Leu Ser Arg Ser Ala Ser Leu Ser Tyr Pro Asp Arg Thr Asp  
 515 520 525  
 Val Ser Thr Ala Ala Thr Leu Ala Gly Ser Ser Asn Gln Phe Gly Ser  
 530 535 540  
 Ser Val Leu Gly Gln Tyr Ile Ser Asp Phe Ser Val Arg Ala Leu Val  
 545 550 555 560  
 Asp Leu Gln Tyr Ile Lys Ile Thr Arg Gln Gln Tyr Gln Asn Gly Leu  
 565 570 575  
 Leu Ala Ser Arg Met Glu Asn Ser Pro Gln Phe Pro Ile Asp Gly Cys  
 580 585 590  
 Thr Thr His Met Glu Asn Leu Ala Glu Lys Ser Glu Leu Pro Val Val  
 595 600 605  
 Asp Glu Thr Thr Thr Leu Leu Asn Glu Arg Asn Ser Leu Leu His Lys  
 610 615 620  
 Ala Ser His Glu Asn Ala Ile  
 625 630

<210> 1421  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 1421  
 Met Gly Val Arg Val Trp Glu Leu Pro Ala Gln Pro Thr Gly Leu His  
           1                  5                  10                  15  
 Leu Leu Cys Phe Cys Thr Arg Thr Met Leu Leu Ala Leu Lys Leu Pro  
                   20                  25                  30  
 Lys Thr Lys His Ser Phe Pro Asp Pro Tyr Thr Ser Ile Leu Ser Phe  
           35                  40                  45  
 Ile His Pro Ala Phe Thr Glu Asn Leu Thr Leu Cys Gln Val Ser Val  
           50                  55                  60  
 Phe Leu Ser Ser Ser Asn Thr Glu Met Asn Gln Met Phe His Gly Val  
           65                  70                  75                  80  
 Ser Phe Arg

<210> 1422  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (93)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1422  
 Met Met Ala Ser Ile Gln Ser Phe Ser Ala Met Ala Leu Leu Phe Tyr  
           1                  5                  10                  15

Thr Val Phe Met Phe Val Ile Val Leu Ser Ser Leu Lys His Gly Leu  
                   20                  25                  30

Phe Ser Gly Gln Trp Leu Arg Arg Val Ser Tyr Val Arg Trp Glu Gly  
                   35                  40                  45

Val Phe Arg Cys Ile Pro Ile Phe Gly Met Ser Phe Ala Cys Gln Ser  
                   50                  55                  60

Gln Val Leu Pro Thr Tyr Asp Ser Leu Asp Glu Pro Ser Val Lys Thr  
                   65                  70                  75                  80

Met Ser Ser Ile Phe Xaa Xaa Ser Leu Asn Val Val Xaa Xaa Phe Xaa  
                   85                  90                  95

Val Met Val Gly Val Phe Arg  
                   100

<210> 1423  
 <211> 384  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (131)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1423  
 Gln Arg Gln Glu Asp Glu Glu Asp Lys Pro Arg Gln Val Glu Val His  
   1                  5                  10                  15

Gln Glu Pro Gly Ala Ala Val Pro Arg Gly Gln Glu Ala Pro Glu Gly  
                   20                  25                  30

Lys Ala Arg Glu Thr Val Glu Asn Leu Pro Pro Leu Pro Leu Asp Pro  
                   35                  40                  45

Val Leu Arg Ala Pro Gly Gly Arg Pro Ala Pro Ser Gln Asp Leu Asn  
                   50                  55                  60

Gln Arg Ser Leu Glu His Ser Glu Gly Pro Val Gly Arg Asp Pro Ala  
                   65                  70                  75                  80

Gly Pro Pro Asp Gly Gly Pro Asp Thr Glu Pro Arg Ala Ala Gln Xaa  
                   85                  90                  95

Lys Leu Arg Asp Gly Gln Lys Asp Ala Ala Pro Arg Ala Ala Gly Thr  
                   100                  105                  110

Val Lys Glu Leu Pro Lys Gly Pro Glu Gln Val Pro Val Pro Asp Pro  
                   115                  120                  125

Ala Arg Xaa Ala Gly Gly Pro Glu Glu Arg Leu Ala Glu Glu Phe Pro  
 130 135 140  
 Gly Gln Ser Gln Asp Val Thr Gly Gly Ser Gln Asp Arg Lys Lys Pro  
 145 150 155 160  
 Gly Lys Glu Val Ala Ala Thr Gly Thr Ser Ile Leu Lys Glu Ala Asn  
 165 170 175  
 Trp Leu Val Ala Gly Pro Gly Ala Glu Thr Gly Asp Pro Arg Met Lys  
 180 185 190  
 Pro Lys Gln Val Ser Arg Asp Leu Gly Leu Ala Ala Asp Leu Pro Gly  
 195 200 205  
 Gly Ala Glu Gly Ala Ala Ala Gln Pro Gln Ala Val Leu Arg Gln Pro  
 210 215 220  
 Glu Leu Arg Val Ile Ser Asp Gly Glu Gln Gly Gly Gln Gln Gly His  
 225 230 235 240  
 Arg Leu Asp His Gly Gly His Leu Glu Met Arg Lys Ala Arg Gly Gly  
 245 250 255  
 Asp His Val Pro Val Ser His Glu Gln Pro Arg Gly Gly Glu Asp Ala  
 260 265 270  
 Ala Val Gln Glu Pro Arg Gln Arg Pro Glu Pro Glu Leu Gly Leu Lys  
 275 280 285  
 Arg Ala Val Pro Gly Gly Gln Arg Pro Asp Asn Ala Lys Pro Asn Arg  
 290 295 300  
 Asp Leu Lys Leu Gln Ala Gly Ser Asp Leu Arg Arg Arg Arg Asp  
 305 310 315 320  
 Leu Gly Pro His Ala Glu Gly Gln Leu Ala Pro Arg Asp Gly Val Ile  
 325 330 335  
 Ile Gly Leu Asn Pro Leu Pro Asp Val Gln Val Asn Asp Leu Arg Gly  
 340 345 350  
 Ala Leu Asp Ala Gln Leu Arg Gln Ala Ala Gly Gly Ala Leu Gln Val  
 355 360 365  
 Val His Ser Arg Gln Leu Arg Gln Ala Pro Gly Pro Pro Glu Glu Ser  
 370 375 380

&lt;210&gt; 1424

&lt;211&gt; 973

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1424

Met Met Ala Ser Ile Gln Ser Phe Ser Ala Met Ala Leu Leu Phe Tyr

1                      5                      10                      15  
 Thr Val Phe Met Phe Val Ile Val Leu Ser Ser Leu Lys His Gly Leu  
                     20                      25                      30  
 Phe Ser Gly Gln Trp Leu Arg Arg Val Ser Tyr Val Arg Trp Glu Gly  
                     35                      40                      45  
 Val Phe Arg Cys Ile Pro Ile Phe Gly Met Ser Phe Ala Cys Gln Ser  
                     50                      55                      60  
 Gln Val Leu Pro Thr Tyr Asp Ser Leu Asp Glu Pro Ser Val Lys Thr  
                     65                      70                      75                      80  
 Met Ser Ser Ile Phe Ala Ser Ser Leu Asn Val Val Thr Thr Phe Tyr  
                     85                      90                      95  
 Val Met Val Gly Phe Phe Gly Tyr Val Ser Phe Thr Glu Ala Thr Ala  
                     100                      105                      110  
 Gly Asn Val Leu Met His Phe Pro Ser Asn Leu Val Thr Glu Met Leu  
                     115                      120                      125  
 Arg Val Gly Phe Met Met Ser Val Ala Val Gly Phe Pro Met Met Ile  
                     130                      135                      140  
 Leu Pro Cys Arg Gln Ala Leu Ser Thr Leu Leu Cys Glu Gln Gln Gln  
                     145                      150                      155                      160  
 Lys Asp Gly Thr Phe Ala Ala Gly Gly Tyr Met Pro Pro Leu Arg Phe  
                     165                      170                      175  
 Lys Ala Leu Thr Leu Ser Val Val Phe Gly Thr Met Val Gly Gly Ile  
                     180                      185                      190  
 Leu Ile Pro Asn Val Glu Thr Ile Leu Gly Leu Thr Gly Ala Thr Met  
                     195                      200                      205  
 Gly Ser Leu Ile Cys Phe Ile Cys Pro Ala Leu Ile Tyr Lys Lys Ile  
                     210                      215                      220  
 His Lys Asn Ala Leu Ser Ser Gln Val Val Leu Trp Val Gly Leu Gly  
                     225                      230                      235                      240  
 Val Leu Val Val Ser Thr Val Thr Thr Leu Ser Val Ser Glu Glu Val  
                     245                      250                      255  
 Pro Glu Asp Leu Ala Glu Glu Ala Pro Gly Gly Arg Leu Gly Glu Ala  
                     260                      265                      270  
 Glu Gly Leu Met Lys Val Glu Ala Ala Arg Leu Ser Ala Gln Asp Pro  
                     275                      280                      285  
 Val Val Ala Val Ala Glu Asp Gly Arg Glu Lys Pro Lys Leu Pro Lys  
                     290                      295                      300  
 Glu Arg Glu Glu Leu Glu Gln Ala Gln Ile Lys Gly Pro Val Asp Val  
                     305                      310                      315                      320  
 Pro Gly Arg Glu Asp Gly Lys Glu Ala Pro Glu Glu Ala Gln Leu Asp



325                      330                      335  
 Arg Pro Gly Gln Gly Ile Ala Val Pro Val Gly Glu Ala His Arg His  
                          340                      345                      350  
 Glu Pro Pro Val Pro His Asp Lys Val Val Val Asp Glu Gly Gln Asp  
                          355                      360                      365  
 Arg Glu Val Pro Glu Glu Asn Lys Pro Pro Ser Arg His Ala Gly Gly  
                          370                      375                      380  
 Lys Ala Pro Gly Val Gln Gly Gln Met Ala Pro Pro Leu Pro Asp Ser  
                          385                      390                      395                      400  
 Glu Arg Glu Lys Gln Glu Pro Glu Gln Gly Glu Val Gly Lys Arg Pro  
                          405                      410                      415  
 Gly Gln Ala Gln Ala Leu Glu Glu Ala Gly Asp Leu Pro Glu Asp Pro  
                          420                      425                      430  
 Gln Lys Val Pro Glu Ala Asp Gly Gln Pro Ala Val Gln Pro Ala Lys  
                          435                      440                      445  
 Glu Asp Leu Gly Pro Gly Asp Arg Gly Leu His Pro Arg Pro Gln Ala  
                          450                      455                      460  
 Val Leu Ser Glu Gln Gln Asn Gly Leu Ala Val Gly Gly Gly Glu Lys  
                          465                      470                      475                      480  
 Ala Lys Gly Gly Pro Pro Pro Gly Asn Ala Ala Gly Asp Thr Gly Gln  
                          485                      490                      495  
 Pro Ala Glu Asp Ser Asp His Gly Gly Lys Pro Pro Leu Pro Ala Glu  
                          500                      505                      510  
 Lys Pro Ala Pro Gly Pro Gly Leu Pro Pro Glu Pro Arg Glu Gln Arg  
                          515                      520                      525  
 Asp Val Glu Arg Ala Gly Gly Asn Gln Ala Ala Ser Gln Leu Glu Glu  
                          530                      535                      540  
 Ala Gly Arg Ala Glu Met Leu Asp His Ala Val Leu Leu Gln Val Ile  
                          545                      550                      555                      560  
 Lys Glu Gln Gln Val Gln Gln Lys Arg Leu Leu Asp Gln Gln Glu Lys  
                          565                      570                      575  
 Leu Leu Ala Val Ile Glu Glu Gln His Lys Glu Ile His Gln Gln Arg  
                          580                      585                      590  
 Gln Glu Asp Glu Glu Asp Lys Pro Arg Gln Val Glu Val His Gln Glu  
                          595                      600                      605  
 Pro Gly Ala Ala Val Pro Arg Gly Gln Glu Ala Pro Glu Gly Lys Ala  
                          610                      615                      620  
 Arg Glu Thr Val Glu Asn Leu Pro Pro Leu Pro Leu Asp Pro Val Leu  
                          625                      630                      635                      640  
 Arg Ala Pro Gly Gly Arg Pro Ala Pro Ser Gln Asp Leu Asn Gln Arg  
                          861

645 650 655

Ser Leu Glu His Ser Glu Gly Pro Val Gly Arg Asp Pro Ala Gly Pro  
660 665 670

Pro Asp Gly Gly Pro Asp Thr Glu Pro Arg Ala Ala Gln Gly Lys Leu  
675 680 685

Arg Asp Gly Gln Lys Asp Ala Ala Pro Arg Ala Ala Gly Thr Val Lys  
690 695 700

Glu Leu Pro Lys Gly Pro Glu Gln Val Pro Val Pro Asp Pro Ala Arg  
705 710 715 720

Glu Ala Gly Gly Pro Glu Glu Arg Leu Ala Glu Glu Phe Pro Gly Gln  
725 730 735

Ser Gln Asp Val Thr Gly Gly Ser Gln Asp Arg Lys Lys Pro Gly Lys  
740 745 750

Glu Val Ala Ala Thr Gly Thr Ser Ile Leu Lys Glu Ala Asn Trp Leu  
755 760 765

Val Ala Gly Pro Gly Ala Glu Thr Gly Asp Pro Arg Met Lys Pro Lys  
770 775 780

Gln Val Ser Arg Asp Leu Gly Leu Ala Ala Asp Leu Pro Gly Gly Ala  
785 790 795 800

Glu Gly Ala Ala Ala Gln Pro Gln Ala Val Leu Arg Gln Pro Glu Leu  
805 810 815

Arg Val Ile Ser Asp Gly Glu Gln Gly Gly Gln Gln Gly His Arg Leu  
820 825 830

Asp His Gly Gly His Leu Glu Met Arg Lys Ala Arg Gly Gly Asp His  
835 840 845

Val Pro Val Ser His Glu Gln Pro Arg Gly Gly Glu Asp Ala Ala Val  
850 855 860

Gln Glu Pro Arg Gln Arg Pro Glu Pro Glu Leu Gly Leu Lys Arg Ala  
865 870 875 880

Val Pro Gly Gly Gln Arg Pro Asp Asn Ala Lys Pro Asn Arg Asp Leu  
885 890 895

Lys Leu Gln Ala Gly Ser Asp Leu Arg Arg Arg Arg Arg Asp Leu Gly  
900 905 910

Pro His Ala Glu Gly Gln Leu Ala Pro Arg Asp Gly Val Ile Gly Leu  
915 920 925

Asn Pro Leu Pro Asp Val Gln Val Asn Asp Leu Arg Gly Ala Leu Asp  
930 935 940

Ala Gln Leu Arg Gln Ala Ala Gly Gly Ala Leu Gln Val Val His Ser  
945 950 955 960

Arg Gln Leu Arg Gln Ala Pro Gly Pro Pro Glu Glu Ser

862

965

970

<210> 1425  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (89)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (104)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1425  
 Met Tyr Leu Gln Ile Pro Val Lys His Met Leu His Ser Gly Tyr Gln  
           1                  5                  10                  15  
 Ala Thr Phe Phe Ser Pro Lys Ile Gly Cys Ser Ser Ile Leu Val Phe  
                   20                  25                  30  
 Val Cys Leu Leu Val Phe Leu Arg Gln Ser Leu Ala Leu Leu Pro Arg  
           35                  40                  45  
 Leu Glu Tyr Ser Gly Ala Ile Leu Ala His Cys Asn Leu His Leu Leu  
           50                  55                  60  
 Gly Ser Ser Asp Ser Pro Ala Ser Ala Ser Pro Val Ala Gly Ile Thr  
           65                  70                  75                  80  
 Gly Met His His His Thr Gln Leu Xaa Phe Cys Thr Phe Ser Arg Xaa  
                   85                  90                  95  
 Gly Ile Tyr Gln Leu Ala Ser Xaa Ser Pro Asn Pro Asp Leu  
           100                  105                  110

<210> 1426  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 1426  
 Phe Asn Thr Pro Lys Ile Phe Phe Gly Thr Tyr His Arg Gln Gly Thr  
           1                  5                  10                  15  
 Leu Ile Ser Thr Gly Asp Thr Ile Ser Cys Leu Gly Leu Leu Cys Ser  
           20                  25                  30

Ser Ala Ala Arg Glu Gly Ile Ala Ile Cys Arg Ile Leu Lys Lys His  
           35                          40                          45

Lys His Lys Gly Ala Lys Leu Tyr Ile  
           50                          55

<210> 1427  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<400> 1427  
 Met Leu His Ser Gly Tyr Gln Ala Thr Phe Phe Ser Pro Lys Ile Gly  
       1                          5                          10                          15

Cys Ser Ser Ile Leu Val Phe Val Cys Leu Leu Val Phe Leu Arg Gln  
                           20                          25                          30

Ser Leu Ala Leu Leu Pro Arg Leu Glu Tyr Ser Gly Ala Ile Leu Ala  
                           35                          40                          45

His Cys Asn Leu His Leu Leu Gly Ser Ser Asp Ser Pro Ala Ser Ala  
           50                          55                          60

Ser Pro Val Ala Gly Ile Thr Gly Met His His His Thr Gln Leu Phe  
       65                          70                          75                          80

Phe Cys Thr Phe Ser Arg Asp Gly Ile Leu Pro Cys Trp Pro Gly Trp  
                           85                          90                          95

Ser Pro Thr Pro Asp Leu Arg Gln Ser Thr Leu Leu Ser Leu Pro Lys  
                           100                          105                          110

Cys Trp Asp Tyr Arg His Glu Pro Leu Arg Pro Ala Gln Ala Phe  
           115                          120                          125

<210> 1428  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 1428  
 Met Phe Ile Pro Gln Leu Pro Ala Leu Gly Leu Thr Ser Leu Met Met  
       1                          5                          10                          15

Ala Ile Ser Leu Asn Val Ser Val Ser Gln Gly Leu Ser Ser Ala Cys  
                           20                          25                          30

Met His Leu Arg Met Gln Ala Cys Lys Pro Thr Arg Val Gln Ala Lys  
           35                          40                          45

Val Leu Gly Asp Trp Val Gln Glu Asn His Val Ile Glu Asn Gly Ala  
           50                          55                          60

Thr Leu Arg Pro Trp Gln Asp Pro Leu His Asp Lys Tyr Arg Met Lys  
       65                          70                          75                          80

&lt;210&gt; 1429

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1429

His Phe Ser Phe Trp Phe Ile His Phe Pro His Phe His Leu Lys Ile  
 1 5 10 15

Leu Thr Lys Cys Leu Ala Glu Phe Ser Lys Tyr Asn Asn Phe Thr Leu  
 20 25 30

Pro Ala Asp Asn Glu Xaa Ile Arg Val Gln Asn Pro Phe Gln Leu Ser  
 35 40 45

Lys His Leu Leu Ser Leu Tyr Phe Val Ser Asp Thr Gly Val Lys Phe  
 50 55 60

Trp Lys Cys Lys Arg Asn Leu His Leu  
 65 70

&lt;210&gt; 1430

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1430

Met Phe Ile Pro Gln Leu Pro Ala Leu Gly Leu Thr Ser Leu Met Met  
 1 5 10 15

Ala Ile Ser Leu Asn Val Ser Val Ser Gln Gly Leu Ser Ser Ala Cys  
 20 25 30

Met His Leu Arg Met Gln Ala Cys Lys Pro Thr Arg Val Gln Ala Lys  
 35 40 45

Val Leu Gly Asp Trp Val Gln Glu Asn His Val Ile Glu Asn Gly Ala  
 50 55 60

Thr Leu Arg Pro Trp Gln Asp Pro Leu His Asp Lys Tyr Arg Met Lys  
 65 70 75 80

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<210> 1431  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 1431  
 Met Leu Arg Trp His Leu Trp Ser Trp Phe Cys Trp Phe Cys Leu Ser  
           1                  5                  10                  15

Glu Ala Gly Val Leu Leu Asp Leu Pro Thr  
                   20                  25

<210> 1432  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1432  
 Xaa Met Ser Arg Gln His Arg Leu Asn Pro His Gly Pro Asp Pro Ala  
           1                  5                  10                  15

Ala Pro His Arg Ala Cys Arg Leu Xaa Ser Pro Arg Gln Val Thr Trp  
                   20                  25                  30

Leu Thr Pro Ala Glu Ala Leu Pro Leu Xaa Pro Cys Pro Ser Gln Cys  
                   35                  40                  45

Gly Ala His Cys Arg Gln His Gly Pro Glu Arg Glu Gly Ser Ala Xaa  
           50                  55                  60

Pro Ala Ala Leu Leu Arg Pro Gly Leu Pro Val Phe Gly His Xaa Leu  
           65                  70                  75                  80

Arg Leu Ser Gln

<210> 1433  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 1433  
 Met Leu Arg Trp His Leu Trp Ser Trp Phe Cys Trp Phe Cys Leu Ser  
           1                  5                  10                  15

Glu Ala Gly Val Leu Leu Asp Leu Pro Thr  
                   20                  25

<210> 1434  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 1434  
 Met Ala Leu Arg Met Leu Trp Ala Gly Gln Ala Lys Gly Ile Leu Gly  
           1                  5                  10                  15

Gly Trp Gly Ile Ile Cys Leu Val Met Ser Leu Leu Leu Gln His Pro  
                   20                  25                  30

Gly Val Tyr Ser Lys Cys Tyr Phe Gln Ala Gln Ala Pro Cys His Tyr  
                   35                  40                  45

Glu Gly Lys Tyr Phe Thr Leu Gly Glu Ser Trp Leu Arg Lys Asp Cys  
           50                  55                  60

Phe His Cys Thr Cys Leu His Pro Val Gly Val Gly Cys Cys Asp Thr  
           65                  70                  75                  80

Ser Gln His Pro Ile Asp Phe Pro Ala Gly Cys Glu Val Arg Gln Glu  
                   85                  90                  95

Ala Gly Thr Cys Gln Phe Ser Leu Val Gln Lys Ser Asp Pro Arg Leu  
                   100                  105                  110

Pro Cys Lys Gly Gly Gly Pro Asp Pro Glu Trp Gly Ser Ala Asn Thr  
           115                  120                  125

Pro Val Pro Gly Ala Pro Ala Pro His Ser Ser  
           130                  135

<210> 1435  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 1435

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Met Ala Leu Arg Met Leu Trp Ala Gly Gln Ala Lys Gly Ile Leu Gly  
 1 5 10 15  
 Gly Trp Gly Ile Ile Cys Leu Val Met Ser Leu Leu Leu Gln His Pro  
 20 25 30  
 Gly Val Tyr Ser Lys Cys Tyr Phe Gln Ala Gln Ala Pro Cys His Tyr  
 35 40 45  
 Glu Gly Lys Tyr Phe Thr Leu Gly Glu Ser Trp Leu Arg Lys Asp Cys  
 50 55 60  
 Phe His Cys Thr Cys Leu His Pro Val Gly Val Gly Cys Cys Asp Thr  
 65 70 75 80  
 Ser Gln His Pro Ile Asp Phe Pro Ala Gly Cys Glu Val Arg Gln Glu  
 85 90 95  
 Ala Gly Thr Cys Gln Phe Ser Leu Val Gln Lys Ser Asp Pro Arg Leu  
 100 105 110  
 Pro Cys Lys Gly Gly Gly Pro Asp Pro Glu Trp Gly Ser Ala Asn Thr  
 115 120 125  
 Pro Val Pro Gly Ala Pro Ala Pro His Ser Ser  
 130 135

<210> 1436  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 1436  
 Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala  
 1 5 10 15  
 Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile  
 20 25 30  
 His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu  
 35 40 45  
 Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile  
 50 55 60  
 Ser Glu Leu Pro Gln Gln Val Gly Glu Val Gly Thr Pro Ser Cys Asn  
 65 70 75 80

<210> 1437  
 <211> 145  
 <212> PRT  
 <213> Homo sapiens



&lt;400&gt; 1437

Asp Pro Ser Gly Ser Phe Met Gly Arg Ser Val Met Met Arg Ile Leu  
 1 5 10 15

Gly Ser Pro Val Phe Phe Pro Met His Asp Thr Ser Val Cys Leu Thr  
 20 25 30

Tyr Pro Asn Phe Tyr Thr Val Val Ser Pro Thr Gly Ser Arg Pro Pro  
 35 40 45

Ser Arg Asn Trp Asn Ser Glu Thr Pro Gly Asp Glu Glu Leu Gly Phe  
 50 55 60

Glu Ala Ala Val Ala Ala Leu Gly Met Lys Thr Thr Val Ser Glu Ala  
 65 70 75 80

Glu His Pro Leu Leu Cys Glu Gly Thr Arg Arg Glu Lys Gly Asp Leu  
 85 90 95

Ala Leu Ala Leu Met Ile Thr Tyr Lys Asp Asp Gln Ala Lys Leu Lys  
 100 105 110

Lys Lys Ile Ser Arg Ala Trp Trp Arg Ala Pro Val Val Pro Ala Thr  
 115 120 125

Arg Glu Ala Glu Val Gly Glu Leu Leu Glu Pro Arg Ser Leu Arg Leu  
 130 135 140

Gln  
 145

&lt;210&gt; 1438

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1438

Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala  
 1 5 10 15

Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile  
 20 25 30

His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu  
 35 40 45

Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile  
 50 55 60

Ser Glu Leu Pro Gln Gln Val Gly Glu Val Gly Thr Pro Ser Cys Asn  
 65 70 75 80

&lt;210&gt; 1439

<211> 91  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1439

Met Ala Ser Gln Val Pro Ser Ser Pro Phe Gln Ser Phe Phe Val Phe  
 1 5 10 15

Val Phe Val Phe Leu Arg Pro Ser His Ser Val Ala Gln Ala Gly Val  
 20 25 30

Pro Leu His Phe Tyr Phe Phe Ile Gln Gln Val Leu Ile Lys Cys Ala  
 35 40 45

Leu Tyr Gln Val Leu Ser Ser Xaa Leu Gly Tyr Asn Gly Asp Gln Gly  
 50 55 60

Asp Cys Arg Phe Trp Gln Gly Lys Leu Thr Ser Asn Thr Ala Thr Arg  
 65 70 75 80

His Ser Glu Thr Leu Ser Leu Leu Glu Glu Leu  
 85 90

<210> 1440

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1440

Met Ser Ala Lys Gln Val Thr Ser Gln Ser Ser Leu Ser Glu Asn Asp  
 1 5 10 15

Gly Phe Gln Ala Phe Val Trp Trp Leu Leu Gly Ile Gly Ala Leu Thr  
 20 25 30

Phe Ala Leu Leu Met Ser Ala Arg Met Gly Ile Phe Gln Glu Thr Leu  
 35 40 45

Tyr Lys Arg Phe Gly Lys His Ser Lys Glu Ala Leu Phe Tyr Asn His  
 50 55 60

Ala Leu Pro Leu Pro Gly Phe Val Phe Leu Ala Ser Asp Ile Tyr Asp  
 65 70 75 80

His Ala Val Leu Phe Asn Lys Ser Glu Leu Tyr Glu Ile Pro Val Ile  
 85 90 95

Gly Val Thr Leu Pro Ile Met Trp Phe Tyr Leu Leu Met Asn Ile Ile

100

105

110

Thr Gln Tyr Val Cys Ile Arg Gly Val Phe Ile Leu Thr Thr Gly Met  
 115 120 125

Arg Leu Pro Xaa Arg His Ala Arg Ser  
 130 135

&lt;210&gt; 1441

&lt;211&gt; 94

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1441

Pro Tyr Pro Phe Cys Xaa Pro Ser Pro Phe Pro Ser Ser Ala Ala Pro  
 1 5 10 15

His Ser Gln Ser Asp Ala Ala Gly Thr Thr Ile Thr Arg Ser Gly Gln  
 20 25 30

Val Asn Arg Asp Thr Ser Asn Ser Arg Ala Gly Leu Pro Pro Ala Phe  
 35 40 45

Trp Glu Gly Lys Arg Cys Ser Pro Glu Leu Ile Pro Ser Asp Ser Ala  
 50 55 60

Ala Arg Leu Val Gly Leu Leu Phe Pro Thr Phe Cys Phe Phe Phe Phe  
 65 70 75 80

Leu Cys Lys Ser Gln Met Leu Leu Ser Ile Ala Phe Cys Asp  
 85 90

&lt;210&gt; 1442

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (104)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1442

Met Gly Phe Ser Gly Pro Ala Leu Leu Phe Pro Ile Phe Leu Leu His  
 1 5 10 15

Ser Ala Ser Ser Met Leu Ser His Thr Ser Thr Ile Val Gln Thr Asn  
 20 25 30

Lys Gln Thr Glu Glu Arg Lys Asp Gly Glu Phe Cys Asn Arg Ala Ala  
 35 40 45

Lys Ser Gln Ser Lys Gln Glu Glu Val Glu Gly Thr Lys Thr Asn Lys  
 50 55 60  
 Gln Arg Cys Leu Asp Tyr Ser Thr Val Asp Met Pro Ser Ile Leu Ala  
 65 70 75 80  
 Cys Ala Pro Leu Ser Ile Thr Gly His Asn Ser Glu Glu Val Gln Ile  
 85 90 95  
 Lys Trp Cys Leu Phe Val Cys Xaa  
 100

<210> 1443  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (104)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1443  
 Met Gly Phe Ser Gly Pro Ala Leu Leu Phe Pro Ile Phe Leu Leu His  
 1 5 10 15  
 Ser Ala Ser Ser Met Leu Ser His Thr Ser Thr Ile Val Gln Thr Asn  
 20 25 30  
 Lys Gln Thr Glu Glu Arg Lys Asp Gly Glu Phe Cys Asn Arg Ala Ala  
 35 40 45  
 Lys Ser Gln Ser Lys Gln Glu Glu Val Glu Gly Thr Lys Thr Asn Lys  
 50 55 60  
 Gln Arg Cys Leu Asp Tyr Ser Thr Val Asp Met Pro Ser Ile Leu Ala  
 65 70 75 80  
 Cys Ala Pro Leu Ser Ile Thr Gly His Asn Ser Glu Glu Val Gln Ile  
 85 90 95  
 Lys Trp Cys Leu Phe Val Cys Xaa  
 100

<210> 1444  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 1444  
 Met Trp Gly Glu Pro Gly Gly Arg Val Ser Ala Leu Ala Gln Val Ser  
 1 5 10 15  
 Ala Gly Tyr Ala Pro Ser Gly Ser Gln Lys Cys Phe Leu Gln Gly Leu  
 20 25 30

Arg Val Leu Leu Leu Val Val Gln Leu Ser Ala Pro His Leu Cys Pro  
 35 40 45

Asn Pro Asn Ser Cys Gln Val Leu Ala Ser Tyr Phe Ser Cys Leu Tyr  
 50 55 60

Ser Tyr Trp Asp Thr Ile Glu Ser Pro Arg Ala Val Gly Ser His Leu  
 65 70 75 80

Arg Gly Arg Tyr Ile Gly Ser Ser  
 85

<210> 1445

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1445

Ser Gln Arg Ser Gly Arg Leu Arg Gln Glu Asp His Leu Arg Ser Gly  
 1 5 10 15

Val Gln Cys Gly Gln His Ser Lys Thr Leu Ser Leu Gln Lys Asn Leu  
 20 25 30

Lys Leu Ser Trp His Trp Trp Arg Met Ala Val Val Pro Ala Thr Trp  
 35 40 45

Glu Val Glu Val Gly Gly Ser Leu Glu Pro Arg Ser Ser Ser Leu Gln  
 50 55 60

<210> 1446

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1446

Met Trp Gly Glu Pro Gly Gly Arg Val Ser Ala Leu Ala Gln Val Ser  
 1 5 10 15

Ala Gly Tyr Ala Pro Ser Gly Ser Gln Lys Cys Phe Leu Gln Gly Leu  
 20 25 30

Arg Val Leu Leu Leu Val Val Gln Leu Ser Ala Pro His Leu Cys Pro  
 35 40 45

Asn Pro Asn Ser Cys Gln Val Leu Ala Ser Tyr Phe Ser Cys Leu Tyr  
 50 55 60

Ser Tyr Trp Asp Thr Ile Glu Ser Pro Arg Ala Val Gly Ser His Leu  
 65 70 75 80

Arg Gly Arg Tyr Ile Gly Ser Ser

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<220> .
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1447
Met Ala Ser His Ser Phe Leu Leu Asp Ile Tyr Leu Val Leu Ser Leu
  1                               10                      15
Trp Lys Cys Ile Pro Gly Leu Val Gln Asp Val Phe Leu Glu Met Lys
      20                               25                      30
Val Leu Thr Glu Ser Ala Leu Cys Lys Val Met Thr Leu Glu Pro Leu
      35                               40                      45
Gln His Ser Val Leu Val Phe Arg Cys Trp Gln Ser Xaa Phe Gln Ala
      50                               55                      60
Lys Ser Ser Arg Pro Cys Gln Ala Ser Ile Phe Ala Tyr Tyr Thr Leu
      65                               70                      75                      80

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Asn Phe

```
<210> 1448
<211> 82
<212> PRT.
<213> Homo sapiens
```

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<400> 1448
Met Ala Ser His Ser Phe Leu Leu Asp Ile Tyr Leu Val Leu Ser Leu.
  1              5              10              15
Trp Lys Cys Ile Pro Gly Leu Val Gln Asp Val Phe Leu Glu Met Lys
          20              25              30
Val Leu Thr Glu Ser Ala Leu Cys Lys Val Met Thr Leu Glu Pro Leu
          35              40              45
Gln His Ser Val Leu Val Phe Arg Cys Trp Gln Ser Pro Phe Gln Ala
  50              55              60
Lys Ser Ser Arg Pro Cys Gln Ala Ser Ile Phe Ala Tyr Tyr Thr Leu
  65              70              75              80

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Asn Phe

```
<210> 1451
<211> 130
<212> PRT
<213> Homo sapiens
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<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (115)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (116)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (126)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (127)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 1451  
 Met Arg Trp Arg Trp Trp Gln Arg Leu Leu Pro Trp Arg Leu Leu Gln  
   1                  5                  10                  15  
 Ala Arg Gly Phe Pro Gln Asn Ser Ala Pro Ser Leu Gly Leu Xaa Ala  
                   20                  25                  30  
 Arg Thr Tyr Ser Gln Gly Asp Cys Ser Tyr Ser Arg Thr Ala Leu Tyr  
                   35                  40                  45  
 Asp Leu Leu Gly Val Pro Ser Thr Ala Thr Gln Ala Gln Ile Lys Ala  
                   50                  55                  60  
 Ala Tyr Tyr Arg Gln Cys Phe Leu Tyr His Pro Asp Arg Asn Ser Gly  
                   65                  70                  75                  80  
 Ser Ala Glu Ala Ala Glu Arg Phe Thr Arg Ile Ser Gln Ala Tyr Val  
                   85                  90                  95  
 Val Leu Gly Ser Ala Pro Ser Val Ala Ser Met Ile Ala Ala Tyr Ser  
                   100                  105                  110  
 Ala Thr Xaa Xaa Cys Ala Asp Leu Ala Xaa Gly Leu Gln Xaa Xaa Arg  
                   115                  120                  125  
  
 His Pro  
       130



<210> 1452  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 1452  
 Leu Asn Pro Trp Pro Leu Ile Val Tyr Leu Cys Trp Asp Pro Lys Glu  
           1                  5                  10                  15  
 Leu Tyr Ser Pro Cys Pro Pro Arg Pro Ala Gln Leu Ser Arg  
                   20                  25                  30

<210> 1453  
 <211> 226  
 <212> PRT  
 <213> Homo sapiens

<400> 1453  
 Met Ala Ala Met Arg Trp Arg Trp Trp Gln Arg Leu Leu Pro Trp Arg  
           1                  5                  10                  15  
 Leu Leu Gln Ala Arg Gly Phe Pro Gln Asn Ser Ala Pro Ser Leu Gly  
                   20                  25                  30  
 Leu Gly Ala Arg Thr Tyr Ser Gln Gly Asp Cys Ser Tyr Ser Arg Thr  
                   35                  40                  45  
 Ala Leu Tyr Asp Leu Leu Gly Val Pro Ser Thr Ala Thr Gln Ala Gln  
                   50                  55                  60  
 Ile Lys Ala Ala Tyr Tyr Arg Gln Cys Phe Leu Tyr His Pro Asp Arg  
                   65                  70                  75                  80  
 Asn Ser Gly Ser Ala Glu Ala Ala Glu Arg Phe Thr Arg Ile Ser Gln  
                   85                  90                  95  
 Ala Tyr Val Val Leu Gly Ser Ala Thr Leu Arg Arg Lys Tyr Asp Arg  
                   100                  105                  110  
 Gly Leu Leu Ser Asp Glu Asp Leu Arg Gly Pro Gly Val Arg Pro Ser  
                   115                  120                  125  
 Arg Thr Pro Ala Pro Asp Pro Gly Ser Pro Arg Thr Pro Pro Pro Thr  
                   130                  135                  140  
 Ser Arg Thr His Asp Gly Ser Arg Ala Ser Pro Gly Ala Ash Arg Thr  
                   145                  150                  155                  160  
 Met Phe Asn Phe Asp Ala Phe Tyr Gln Ala His Tyr Gly Glu Gln Leu  
                   165                  170                  175  
 Glu Arg Glu Arg Arg Leu Arg Ala Arg Arg Glu Ala Leu Arg Lys Arg  
                   180                  185                  190  
 Gln Glu Tyr Arg Ser Met Lys Gly Leu Arg Trp Glu Asp Thr Arg Asp  
                   195                  200                  205  
 Thr Ala Ala Ile Phe Leu Ile Phe Ser Ile Phe Ile Ile Ile Gly Phe

210

215

220

Tyr Ile  
225

&lt;210&gt; 1454

&lt;211&gt; 302

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1454

Met Leu Val Thr Asn Arg Pro Gly Val Leu Lys Glu Pro Lys Leu Met  
1 5 10 15Gly Ala Ile Ser Phe Phe Ile Phe Phe Phe Thr Leu Leu Val Leu Ala  
20 25 30Arg Gln Asn Glu Tyr Tyr Cys Arg Leu Asp Phe Leu Trp Lys Lys Lys  
35 40 45Leu Arg Gln Glu Arg Glu Glu Thr Glu Thr Met Glu Asn Leu Thr Arg  
50 55 60Leu Leu Leu Glu Asn Val Leu Pro Ala His Val Ala Pro Gln Phe Ile  
65 70 75 80Gly Gln Asn Arg Arg Asn Glu Asp Leu Tyr His Gln Ser Tyr Glu Cys  
85 90 95Val Cys Val Leu Phe Ala Ser Val Pro Asp Phe Lys Glu Phe Tyr Ser  
100 105 110Glu Ser Asn Ile Asn His Glu Gly Leu Glu Cys Leu Arg Leu Leu Asn  
115 120 125Glu Ile Ile Ala Asp Phe Asp Glu Leu Leu Ser Lys Pro Lys Phe Ser  
130 135 140Gly Val Glu Lys Ile Lys Thr Ile Gly Ser Thr Tyr Met Ala Ala Thr  
145 150 155 160Gly Leu Asn Ala Thr Ser Gly Gln Asp Ala Gln Gln Asp Ala Glu Arg  
165 170 175Ser Cys Ser His Leu Gly Thr Met Val Glu Phe Ala Val Ala Leu Gly  
180 185 190Ser Lys Leu Asp Val Ile Asn Lys His Ser Phe Asn Asn Phe Arg Leu  
195 200 205Arg Val Gly Leu Asn His Gly Pro Val Val Ala Gly Val Ile Gly Ala  
210 215 220Gln Lys Pro Gln Tyr Asp Ile Trp Gly Asn Thr Val Asn Val Ala Ser  
225 230 235 240Arg Met Glu Ser Thr Gly Val Leu Gly Lys Ile Gln Val Thr Glu Glu  
245 250 255

Thr Ala Trp Ala Leu Gln Ser Leu Gly Tyr Thr Cys Tyr Ser Arg Gly  
260 265 270

Val Ile Lys Val Lys Gly Lys Gly Gln Leu Cys Thr Tyr Phe Leu Asn  
275 280 285

Thr Asp Leu Thr Arg Thr Gly Pro Pro Ser Ala Thr Leu Gly  
290 295 300

<210> 1455

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1455

Met Gly Pro Phe Phe Pro Tyr Ser Leu Leu Xaa Phe Phe Pro Cys Ser  
1 5 10 15

Phe Ser Ser Pro Ser Phe Ile Phe Leu Leu Ile Leu Lys Thr Gly  
20 25 30

Cys Ser Leu Phe Pro Cys Cys Pro Ile Ser Pro Leu Cys Pro Tyr Phe  
35 40 45

Ser Gln Ser Leu Ser Pro Leu Lys Ser Arg Ala Gly Arg Cys Tyr Trp  
50 55 60

Cys Phe Phe Thr Leu Gly Pro Ser Ser Tyr Leu Leu  
65 70 75

<210> 1456

<211> 61

<212> PRT

<213> Homo sapiens

<400> 1456

Thr Leu Thr Gln His Gln Gly Ala His Leu Gly Pro Phe Leu Asp Met  
1 5 10 15

Ser Phe Leu His Tyr His Ser His Glu Pro Pro Thr Ser Gly Ile Ala  
20 25 30

Asp Gln Gly Trp Gly Glu Asn Val Ala Cys Cys Phe Leu Val Leu Val  
35 40 45

Ile Ile Tyr Leu Asn Lys Gln Cys Cys Lys Tyr Leu Pro  
50 55 60

<210> 1457  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1457  
 Met Arg Leu Ser Cys Pro Arg Xaa Pro Gly Trp Met Gly Pro Phe Phe  
           1                          5                          10                          15  
 Pro Tyr Ser Leu Leu Ser Phe Phe Pro Cys Ser Phe Ser Ser Pro Ser  
                           20                          25                          30  
 Phe Ile Phe Leu Leu Leu Ile Leu Lys Thr Gly Cys Ser Leu Phe Pro  
                           35                          40                          45  
 Cys Cys Pro Ile Ser Pro Leu Cys Pro Tyr Phe Ser Gln Ser Leu Ser  
                           50                          55                          60  
 Pro Leu Lys Ser Arg Ala Gly Arg Cys Tyr Trp Cys Phe Phe Thr Leu  
                           65                          70                          75                          80  
 Gly Pro Ser Ser Ile Phe Val Phe Ser Val Tyr Pro Leu Pro Asp Thr  
                           85                          90                          95  
 Ser Phe Ser Pro Ser Leu Gly Pro Lys Ala Glu Asn Gln Cys  
                           100                          105                          110

<210> 1458  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 1458  
 Met Gly Pro Phe Phe Pro Tyr Ser Leu Leu Ser Phe Phe Pro Cys Ser  
           1                          5                          10                          15  
 Phe Ser Ser Pro Ser Phe Ile Phe Leu Leu Leu Ile Leu Lys Thr Gly  
                           20                          25                          30  
 Cys Ser Leu Phe Pro Cys Cys Pro Ile Ser Pro Leu Cys Pro Tyr Phe  
                           35                          40                          45  
 Ser Gln Ser Leu Ser Pro Leu Lys Ser Arg Ala Gly Arg Cys Tyr Trp  
                           50                          55                          60  
 Cys Phe Phe Thr Leu Gly Pro Ser Ser Ile Phe Val Phe Ser Val Tyr  
                           65                          70                          75                          80  
 Pro Leu Pro Asp Thr Ser Phe Ser Pro Ser Leu Gly Pro Lys Ala Glu  
                           85                          90                          95  
 Asn Gln Cys

<210> 1459  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 1459  
 Met Phe Ile Cys Phe Leu Thr Leu Leu Thr Pro Gly Phe Ser Leu Ser  
   1                  5                  10                  15  
 Leu Arg Arg Lys His Tyr Leu Ile Thr Phe Arg Trp Phe Thr Tyr Ser  
                   20                  25                  30  
 Val Lys Asn Met Cys Lys Tyr Phe Val Gln Ser Pro Val Ser Asn Lys  
                   35                  40                  45  
 Gln Pro Tyr Val Val Thr Asn His Leu Phe Cys His Ser Val Leu Gly  
                   50                  55                  60  
 His Arg Ser Val Gly Met Val Ser Asp Leu Asp Ala Pro Thr Phe His  
   65                  70                  75                  80  
 Val Arg Pro Arg Thr Val Pro Trp Ser Val Asp Ser Trp Ser Ala Leu  
                   85                  90                  95  
 Thr Gly

<210> 1460  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 1460  
 Met Phe Ile Cys Phe Leu Thr Leu Leu Thr Pro Gly Phe Ser Leu Ser  
   1                  5                  10                  15  
 Leu Arg Arg Lys His Tyr Leu Ile Thr Phe Arg Trp Phe Thr Tyr Ser  
                   20                  25                  30  
 Val Lys Asn Met Cys Lys Tyr Phe Val Gln Ser Pro Val Ser Asn Lys  
                   35                  40                  45  
 Gln Pro Tyr Val Val Thr Asn His Leu Phe Cys His Ser Val Leu Gly  
                   50                  55                  60  
 His Arg Ser Val Gly Met Val Ser Asp Leu Asp Ala Pro Thr Phe His  
   65                  70                  75                  80  
 Val Arg Pro Arg Thr Val Pro Trp Ser Val Asp Ser Trp Ser Ala Leu  
                   85                  90                  95  
 Thr Gly

Leu

Ala Ala Gln Ala Ser Asp Ala Gly Ser  
85

Arg Trp Gln Trp Thr Ser Phe Leu Ser Ala Ala Ser Thr Ala Ile Tyr

<400> 1465  
Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys  
1 5 10 15  
Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys  
20 25 30

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Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp  
 35 40 45

Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys  
 50 55 60

Asp Gln Leu His Val Cys Asp Ala Ser Gln Gly Leu Val Cys Gln Pro  
 65 70 75 80

Gly Ala Gly Pro Gly Gly Arg Gly Ala Leu Cys Leu Leu Ala Glu Asp  
 85 90 95

Asp Ser Ser Cys Glu Val Asn Gly Arg Leu Tyr Arg Glu Gly Glu Thr  
 100 105 110

Phe Gln Pro His Cys Ser Ile Arg Cys Arg Cys Glu Asp Gly Gly Phe  
 115 120 125

Thr Cys Val Pro Leu Cys Ser Glu Asp Val Arg Leu Pro Ser Trp Asp  
 130 135 140

Cys Pro His Pro Arg Arg Val Glu Val Leu Gly Lys Cys Cys Pro Glu  
 145 150 155 160

Trp Val Cys Gly Gln Gly Gly Gly Leu Gly Thr Gln Pro Leu Pro Ala  
 165 170 175

Gln Gly Pro Gln Phe Ser Gly Leu Val Ser Ser Leu Pro Pro Gly Val  
 180 185 190

Pro Cys Pro Glu Trp Ser Thr Ala Trp Gly Pro Cys Ser Thr Thr Cys  
 195 200 205

Gly Leu Gly Met Ala Thr Arg Val Ser Asn Gln Asn Arg Phe Cys Arg  
 210 215 220

Leu Glu Thr Gln Arg Arg Leu Cys Leu Ser Arg Pro Cys Pro Pro Ser  
 225 230 235 240

Arg Gly Arg Ser Pro Gln Asn Ser Ala Phe  
 245 250

&lt;210&gt; 1466

&lt;211&gt; 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1466

Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys  
 1 5 10 15

Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys  
 20 25 30

Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp  
 35 40 45

Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys  
 884



50                      55                      60  
 Asp Gln Leu His Val Cys Asp Ala Ser Gln Gly Leu Val Cys Gln Pro  
 65                      70                      75                      80  
 Gly Ala Gly Pro Gly Gly Arg Gly Ala Leu Cys Leu Leu Ala Glu Asp  
                     85                      90                      95  
 Asp Ser Ser Cys Glu Val Asn Gly Arg Leu Tyr Arg Glu Gly Glu Thr  
                     100                      105                      110  
 Phe Gln Pro His Cys Ser Ile Arg Cys Arg Cys Glu Asp Gly Gly Phe  
                     115                      120                      125  
 Thr Cys Val Pro Leu Cys Ser Glu Asp Val Arg Leu Pro Ser Trp Asp  
                     130                      135                      140  
 Cys Pro His Pro Arg Arg Val Glu Val Leu Gly Lys Cys Cys Pro Glu  
 145                      150                      155                      160  
 Trp Val Cys Gly Gln Gly Gly Gly Leu Gly Thr Gln Pro Leu Pro Ala  
                     165                      170                      175  
 Gln Gly Pro Gln Phe Ser Gly Leu Val Ser Ser Leu Pro Pro Gly Val  
                     180                      185                      190  
 Pro Cys Pro Glu Trp Ser Thr Ala Trp Gly Pro Cys Ser Thr Thr Cys  
                     195                      200                      205  
 Gly Leu Gly Met Ala Thr Arg Val Ser Asn Gln Asn Arg Phe Cys Arg  
                     210                      215                      220  
 Leu Glu Thr Gln Arg Arg Leu Cys Leu Ser Arg Pro Cys Pro Pro Ser  
 225                      230                      235                      240  
 Arg Gly Arg Ser Pro Gln Asn Ser Ala Phe  
                     245                      250

&lt;210&gt; 1467

&lt;211&gt; 388

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (277)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1467

Met Met Thr Ile Thr Phe Leu Pro Tyr Thr Phe Ser Leu Met Val Thr  
 1                      5                      10                      15

Phe Pro Asp Val Pro Leu Gly Ile Phe Leu Phe Cys Val Cys Val Ile  
 20                      25                      30

Ala Ile Gly Val Val Gln Ala Leu Ile Val Gly Tyr Ala Phe His Phe  
 35                      40                      45

Pro His Leu Leu Ser Pro Gln Ile Gln Arg Ser Ala His Arg Ala Leu  
 .50 55 60  
 Tyr Arg Arg His Val Leu Gly Ile Val Leu Gln Gly Pro Ala Leu Cys  
 65 70 75 80  
 Phe Ala Ala Ala Ile Phe Ser Leu Phe Phe Val Pro Leu Ser Tyr Leu  
 85 90 95  
 Leu Met Val Thr Val Ile Leu Leu Pro Tyr Val Ser Lys Val Thr Gly  
 100 105 110  
 Trp Cys Arg Asp Arg Leu Leu Gly His Arg Glu Pro Ser Ala His Pro  
 115 120 125  
 Val Glu Val Phe Ser Phe Asp Leu His Glu Pro Leu Ser Lys Glu Arg  
 130 135 140  
 Val Glu Ala Phe Ser Asp Gly Val Tyr Ala Ile Val Ala Thr Leu Leu  
 145 150 155 160  
 Ile Leu Asp Ile Cys Glu Asp Asn Val Pro Asp Pro Lys Asp Val Lys  
 165 170 175  
 Glu Arg Phe Ser Gly Ser Leu Val Ala Ala Leu Ser Ala Thr Gly Pro  
 180 185 190  
 Arg Phe Leu Ala Tyr Phe Gly Ser Phe Ala Thr Val Gly Leu Leu Trp  
 195 200 205  
 Phe Ala His His Ser Leu Phe Leu His Val Arg Lys Ala Thr Arg Ala  
 210 215 220  
 Met Gly Leu Leu Asn Thr Leu Ser Leu Ala Phe Val Gly Gly Leu Pro  
 225 230 235 240  
 Leu Ala Tyr Gln Gln Thr Ser Ala Phe Ala Arg Gln Pro Arg Asp Glu  
 245 250 255  
 Leu Glu Arg Val Arg Val Ser Cys Thr Ile Ile Phe Leu Ala Ser Ile  
 260 265 270  
 Phe Gln Leu Ala Xaa Trp Thr Thr Ala Leu Leu His Gln Ala Glu Thr  
 275 280 285  
 Leu Gln Pro Ser Val Trp Phe Gly Gly Arg Glu His Val Leu Met Phe  
 290 295 300  
 Ala Lys Leu Ala Leu Tyr Pro Cys Ala Ser Leu Leu Ala Phe Ala Ser  
 305 310 315 320  
 Thr Cys Leu Leu Ser Arg Phe Ser Val Gly Ile Phe His Leu Met Gln  
 325 330 335  
 Ile Ala Val Pro Cys Ala Phe Leu Leu Leu Arg Leu Leu Val Gly Leu  
 340 345 350  
 Ala Leu Ala Thr Leu Arg Val Leu Arg Gly Leu Ala Arg Pro Glu His  
 355 360 365

Pro Pro Pro Ala Pro Thr Gly Gln Asp Asp Pro Gln Ser Gln Leu Leu  
 370 375 380

Pro Ala Pro Cys  
 385

<210> 1468  
 <211> 388  
 <212> PRT  
 <213> Homo sapiens

<400> 1468  
 Met Met Thr Ile Thr Phe Leu Pro Tyr Thr Phe Ser Leu Met Val Thr  
 1 5 10 15

Phe Pro Asp Val Pro Leu Gly Ile Phe Leu Phe Cys Val Cys Val Ile  
 20 25 30

Ala Ile Gly Val Val Gln Ala Leu Ile Val Gly Tyr Ala Phe His Phe  
 35 40 45

Pro His Leu Leu Ser Pro Gln Ile Gln Arg Ser Ala His Arg Ala Leu  
 50 55 60

Tyr Arg Arg His Val Leu Gly Ile Val Leu Gln Gly Pro Ala Leu Cys  
 65 70 75 80

Phe Ala Ala Ala Ile Phe Ser Leu Phe Phe Val Pro Leu Ser Tyr Leu  
 85 90 95

Leu Met Val Thr Val Ile Leu Leu Pro Tyr Val Ser Lys Val Thr Gly  
 100 105 110

Trp Cys Arg Asp Arg Leu Leu Gly His Arg Glu Pro Ser Ala His Pro  
 115 120 125

Val Glu Val Phe Ser Phe Asp Leu His Glu Pro Leu Ser Lys Glu Arg  
 130 135 140

Val Glu Ala Phe Ser Asp Gly Val Tyr Ala Ile Val Ala Thr Leu Leu  
 145 150 155 160

Ile Leu Asp Ile Cys Glu Asp Asn Val Pro Asp Pro Lys Asp Val Lys  
 165 170 175

Glu Arg Phe Ser Gly Ser Leu Val Ala Ala Leu Ser Ala Thr Gly Pro  
 180 185 190

Arg Phe Leu Ala Tyr Phe Gly Ser Phe Ala Thr Val Gly Leu Leu Trp  
 195 200 205

Phe Ala His His Ser Leu Phe Leu His Val Arg Lys Ala Thr Arg Ala  
 210 215 220

Met Gly Leu Leu Asn Thr Leu Ser Leu Ala Phe Val Gly Gly Leu Pro  
 225 230 235 240

Leu Ala Tyr Gln Gln Thr Ser Ala Phe Ala Arg Gln Pro Arg Asp Glu

245                      250                      255  
 Leu Glu Arg Val Arg Val Ser Cys Thr Ile Ile Phe Leu Ala Ser Ile  
                          260                      265                      270  
 Phe Gln Leu Ala Met Trp Thr Thr Ala Leu Leu His Gln Ala Glu Thr  
                          275                      280                      285  
 Leu Gln Pro Ser Val Trp Phe Gly Gly Arg Glu His Val Leu Met Phe  
                          290                      295                      300  
 Ala Lys Leu Ala Leu Tyr Pro Cys Ala Ser Leu Leu Ala Phe Ala Ser  
                          305                      310                      315                      320  
 Thr Cys Leu Leu Ser Arg Phe Ser Val Gly Ile Phe His Leu Met Gln  
                          325                      330                      335  
 Ile Ala Val Pro Cys Ala Phe Leu Leu Leu Arg Leu Leu Val Gly Leu  
                          340                      345                      350  
 Ala Leu Ala Thr Leu Arg Val Leu Arg Gly Leu Ala Arg Pro Glu His  
                          355                      360                      365  
 Pro Pro Pro Ala Pro Thr Gly Gln Asp Asp Pro Gln Ser Gln Leu Leu  
                          370                      375                      380  
 Pro Ala Pro Cys  
 385

<210> 1469  
 <211> 262  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (231)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1469  
 Met Ser Pro Pro Pro Leu Leu Gln Pro Leu Leu Leu Leu Pro Leu  
                          1                      5                      10                      15  
 Leu Asn Val Glu Pro Ser Gly Ala Thr Leu Ile Arg Ile Pro Leu His  
                          20                      25                      30  
 Arg Val Gln Pro Gly Arg Arg Ile Leu Asn Leu Leu Arg Gly Trp Arg  
                          35                      40                      45  
 Glu Pro Ala Glu Leu Pro Lys Leu Gly Ala Pro Ser Pro Gly Asp Lys  
                          50                      55                      60  
 Pro Ile Phe Val Pro Leu Ser Asn Tyr Arg Asp Val Gln Tyr Phe Gly  
                          65                      70                      75                      80  
 Glu Ile Gly Leu Gly Thr Pro Pro Gln Asn Phe Thr Val Ala Phe Asp  
                          85                      90                      95

Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Arg Arg Cys His Phe Phe  
 100 105 110  
 Ser Val Pro Cys Trp Leu His His Arg Phe Asp Pro Lys Ala Ser Ser  
 115 120 125  
 Ser Phe Gln Ala Asn Gly Thr Lys Phe Ala Ile Gln Tyr Gly Thr Gly  
 130 135 140  
 Arg Val Asp Gly Ile Leu Ser Glu Asp Lys Leu Thr Ile Gly Gly Ile  
 145 150 155 160  
 Lys Gly Ala Ser Val Ile Phe Gly Glu Ala Leu Trp Glu Pro Ser Leu  
 165 170 175  
 Val Phe Ala Phe Ala His Phe Asp Gly Ile Leu Gly Leu Gly Phe Pro  
 180 185 190  
 Ile Leu Ser Val Glu Gly Val Arg Pro Pro Met Asp Val Leu Val Glu  
 195 200 205  
 Gln Gly Leu Leu Asp Lys Pro Val Phe Ser Phe Tyr Leu Asn Arg Asp  
 210 215 220  
 Pro Glu Glu Pro Asp Gly Xaa Glu Leu Val Leu Gly Gly Ser Asp Pro  
 225 230 235 240  
 Ala His Tyr Ile Pro Pro Ser Pro Phe Val Pro Val Arg Ser Pro Pro  
 245 250 255  
 Met Ala Asp Pro Gln Gly  
 260

<210> 1470  
 <211> 145  
 <212> PRT  
 <213> Homo sapiens

<400> 1470  
 Met Ser Pro Pro Pro Leu Leu Gln Pro Leu Leu Leu Leu Pro Leu  
 1 5 10 15  
 Leu Asn Val Glu Pro Ser Gly Ala Thr Leu Ile Arg Ile Pro Leu His  
 20 25 30  
 Arg Val Gln Pro Gly Arg Arg Ile Leu Asn Leu Leu Arg Gly Trp Arg  
 35 40 45  
 Glu Pro Ala Glu Leu Pro Lys Leu Gly Ala Pro Ser Pro Gly Asp Lys  
 50 55 60  
 Pro Ile Phe Val Pro Leu Ser Asn Tyr Arg Asp Val Gln Tyr Phe Gly  
 65 70 75 80  
 Glu Ile Gly Leu Gly Thr Pro Pro Gln Asn Phe Thr Val Ala Phe Asp  
 85 90 95  
 Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Arg Arg Cys His Phe Phe

100                      105                      110  
 Ser Val Pro Cys Trp Leu His His Arg Phe Asp Pro Lys Ala Ser Ser  
       115                      120                      125  
 Ser Phe Arg Pro Met Gly Pro Ser Leu Pro Phe Asn Met Glu Leu Gly  
       130                      135                      140  
 Gly  
 145  
  
 <210> 1471  
 <211> 212  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 1471  
 Gly Ser Ala Gly Thr Ala Arg Ile Xaa Gly Ser Thr Thr Arg Pro Asp  
       1                      5                      10                      15  
 Pro Glu Glu Pro Asp Gly Gly Glu Leu Val Leu Gly Gly Ser Asp Pro  
                     20                      25                      30  
 Ala His Tyr Ile Pro Pro Leu Thr Phe Val Pro Val Thr Val Pro Ala  
                     35                      40                      45  
 Tyr Trp Gln Ile His Met Glu Arg Val Lys Val Gly Pro Gly Leu Thr  
                     50                      55                      60  
 Leu Cys Ala Lys Gly Cys Ala Ala Ile Leu Asp Thr Gly Thr Ser Leu  
                     65                      70                      75                      80  
 Ile Thr Gly Pro Thr Glu Glu Ile Arg Ala Leu His Ala Ala Ile Gly  
                     85                      90                      95  
 Gly Ile Pro Leu Leu Ala Gly Glu Tyr Ile Ile Leu Cys Ser Glu Ile  
                     100                      105                      110  
 Pro Lys Leu Pro Ala Val Ser Phe Leu Leu Gly Gly Val Trp Phe Asn  
                     115                      120                      125  
 Leu Thr Ala His Asp Tyr Val Ile Gln Thr Thr Arg Asn Gly Val Arg  
                     130                      135                      140  
 Leu Cys Leu Ser Gly Phe Gln Ala Leu Asp Val Pro Pro Pro Ala Gly  
                     145                      150                      155                      160  
 Pro Phe Trp Ile Leu Gly Asp Val Phe Leu Gly Thr Tyr Val Ala Val  
                     165                      170                      175  
 Phe Asp Arg Gly Asp Met Lys Ser Ser Ala Arg Val Gly Leu Ala Arg  
                     180                      185                      190

Ala Arg Thr Arg Gly Ala Asp Leu Gly Trp Gly Glu Thr Ala Gln Ala  
 195 200 205

Gln Phe Pro Gly  
 210

<210> 1472  
 <211> 150  
 <212> PRT  
 <213> Homo sapiens

<400> 1472  
 Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val  
 1 5 10 15  
 Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr  
 20 25 30  
 Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser  
 35 40 45  
 Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp  
 50 55 60  
 Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln  
 65 70 75 80  
 Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn  
 85 90 95  
 Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn  
 100 105 110  
 Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys  
 115 120 125  
 Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro  
 130 135 140  
 Ile Ser Ile Met Ile Cys  
 145 150

<210> 1473  
 <211> 150  
 <212> PRT  
 <213> Homo sapiens

<400> 1473  
 Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val  
 1 5 10 15  
 Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr  
 20 25 30  
 Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser  
 35 40 45

Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp  
     50                    55                    60  
 Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln  
     65                    70                    75                    80  
 Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn  
                     85                    90                    95  
 Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn  
                     100                    105                    110  
 Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys  
                     115                    120                    125  
 Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro  
                     130                    135                    140  
 Ile Ser Ile Met Ile Cys  
     145                    150

<210> 1474  
 <211> 353  
 <212> PRT  
 <213> Homo sapiens

<400> 1474  
 Met Arg Tyr Leu Leu Pro Ser Val Val Leu Leu Gly Thr Ala Pro Thr  
     1                    5                    10                    15  
 Tyr Val Leu Ala Trp Gly Val Trp Arg Leu Leu Ser Ala Phe Leu Pro  
                     20                    25                    30  
 Ala Arg Phe Tyr Gln Ala Leu Asp Asp Arg Leu Tyr Cys Val Tyr Gln  
                     35                    40                    45  
 Ser Met Val Leu Phe Phe Phe Glu Asn Tyr Thr Gly Val Gln Ile Leu  
                     50                    55                    60  
 Leu Tyr Gly Asp Leu Pro Lys Asn Lys Glu Asn Ile Ile Tyr Leu Ala  
                     65                    70                    75                    80  
 Asn His Gln Ser Thr Val Asp Trp Ile Val Ala Asp Ile Leu Ala Ile  
                     85                    90                    95  
 Arg Gln Asn Ala Leu Gly His Val Arg Tyr Val Leu Lys Glu Gly Leu  
                     100                    105                    110  
 Lys Trp Leu Pro Leu Tyr Gly Cys Tyr Phe Ala Gln His Gly Gly Ile  
                     115                    120                    125  
 Tyr Val Lys Arg Ser Ala Lys Phe Asn Glu Lys Glu Met Arg Asn Lys  
                     130                    135                    140  
 Leu Gln Ser Tyr Val Asp Ala Gly Thr Pro Met Tyr Leu Val Ile Phe  
                     145                    150                    155                    160



Pro Glu Gly Thr Arg Tyr Asn Pro Glu Gln Thr Lys Val Leu Ser Ala  
 165 170 175  
 Ser Gln Ala Phe Ala Ala Gln Arg Gly Leu Ala Val Leu Lys His Val  
 180 185 190  
 Leu Thr Pro Arg Ile Lys Ala Thr His Val Ala Phe Asp Cys Met Lys  
 195 200 205  
 Asn Tyr Leu Asp Ala Ile Tyr Asp Val Thr Val Val Tyr Glu Gly Lys  
 210 215 220  
 Asp Asp Gly Gly Gln Arg Arg Glu Ser Pro Thr Met Thr Glu Phe Leu  
 225 230 235 240  
 Cys Lys Glu Cys Pro Lys Ile His Ile His Ile Asp Arg Ile Asp Lys  
 245 250 255  
 Lys Asp Val Pro Glu Glu Gln Glu His Met Arg Arg Trp Leu His Glu  
 260 265 270  
 Arg Phe Glu Ile Lys Asp Lys Met Leu Ile Glu Phe Tyr Glu Ser Pro  
 275 280 285  
 Asp Pro Glu Arg Arg Lys Arg Phe Pro Gly Lys Ser Val Asn Ser Lys  
 290 295 300  
 Leu Ser Ile Lys Lys Thr Leu Pro Ser Met Leu Ile Leu Ser Gly Leu  
 305 310 315 320  
 Thr Ala Gly Met Leu Met Thr Asp Ala Gly Arg Lys Leu Tyr Val Asn  
 325 330 335  
 Thr Trp Ile Tyr Gly Thr Leu Leu Gly Cys Leu Trp Val Thr Ile Lys  
 340 345 350  
 Ala

<210> 1475  
 <211> 353  
 <212> PRT  
 <213> Homo sapiens

<400> 1475  
 Met Arg Tyr Leu Leu Pro Ser Val Val Leu Leu Gly Thr Ala Pro Thr  
 1 5 10 15  
 Tyr Val Leu Ala Trp Gly Val Trp Arg Leu Leu Ser Ala Phe Leu Pro  
 20 25 30  
 Ala Arg Phe Tyr Gln Ala Leu Asp Asp Arg Leu Tyr Cys Val Tyr Gln  
 35 40 45  
 Ser Met Val Leu Phe Phe Phe Glu Asn Tyr Thr Gly Val Gln Ile Leu  
 50 55 60  
 Leu Tyr Gly Asp Leu Pro Lys Asn Lys Glu Asn Ile Ile Tyr Leu Ala

<210> 1476  
<211> 80

<212> PRT  
 <213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1476

Met Thr His Cys Leu Leu His Gly Met Gly Xaa Ala Gly Ala Ala Ser  
 1 5 10 15

Leu Thr Pro Lys Pro Met Ser Leu Ile Ser Ala Tyr Cys Gly Gly Leu  
 20 25 30

Trp Leu Ala Ala Val Ala Val Met Val Gln Met Ala Ala Leu Cys Gly  
 35 40 45

Ala Gln Asp Ile Gln Asp Lys Phe Ser Ser Ile Leu Ser Arg Gly Gln  
 50 55 60

Glu Ala Tyr Glu Arg Leu Leu Trp Asn Gly Glu Phe Gly Glu Pro Lys  
 65 70 75 80

<210> 1477

<211> 415

<212> PRT

<213> Homo sapiens

<400> 1477

Val Gly Leu Val Ser Met Leu Gly Ile Pro Ile Pro Gly Ala Glu Gly  
 1 5 10 15

Ala Pro Val Leu Asn Ser Leu Val Phe Leu Ser Gly Gln Ser Thr Pro  
 20 25 30

Thr Gln Lys Gly Val Gly Ile Ala Gly Ala Val Cys Val Ser Ser Lys  
 35 40 45

Leu Arg Pro Arg Gly Gln Cys Arg Leu Glu Phe Ser Leu Ala Trp Asp  
 50 55 60

Met Pro Arg Ile Met Phe Gly Ala Lys Gly Gln Val His Tyr Arg Arg  
 65 70 75 80

Tyr Thr Arg Phe Phe Gly Gln Asp Gly Asp Ala Ala Pro Ala Leu Ser  
 85 90 95

His Tyr Ala Leu Cys Arg Tyr Ala Glu Trp Glu Glu Arg Ile Ser Ala  
 100 105 110

Trp Gln Ser Pro Val Leu Asp Asp Arg Ser Leu Pro Ala Trp Tyr Lys  
 115 120 125

Ser Ala Leu Phe Asn Glu Leu Tyr Phe Leu Ala Asp Gly Gly Thr Val

130                      135                      140  
 Trp Leu Glu Val Leu Glu Asp Ser Leu Pro Glu Glu Leu Gly Arg Asn  
 145                      150                      155                      160  
 Met Cys His Leu Arg Pro Thr Leu Arg Asp Tyr Gly Arg Phe Gly Tyr  
                     165                      170                      175  
 Leu Glu Gly Gln Glu Tyr Arg Met Tyr Asn Thr Tyr Asp Val His Phe  
                     180                      185                      190  
 Tyr Ala Ser Phe Ala Leu Ile Met Leu Trp Pro Lys Leu Glu Leu Ser  
                     195                      200                      205  
 Leu Gln Tyr Asp Met Ala Leu Ala Thr Leu Arg Glu Asp Leu Thr Arg  
                     210                      215                      220  
 Arg Arg Tyr Leu Met Ser Gly Val Met Ala Pro Val Lys Arg Arg Asn  
 225                      230                      235                      240  
 Val Ile Pro His Asp Ile Gly Asp Pro Asp Asp Glu Pro Trp Leu Arg  
                     245                      250                      255  
 Val Asn Ala Tyr Leu Ile His Asp Thr Ala Asp Trp Lys Asp Leu Asn  
                     260                      265                      270  
 Leu Lys Phe Val Leu Gln Val Tyr Arg Asp Tyr Tyr Leu Thr Gly Asp  
                     275                      280                      285  
 Gln Asn Phe Leu Lys Asp Met Trp Pro Val Cys Leu Ala Val Met Glu  
                     290                      295                      300  
 Ser Glu Met Lys Phe Asp Lys Asp His Asp Gly Leu Ile Glu Asn Gly  
 305                      310                      315                      320  
 Gly Tyr Ala Asp Gln Thr Tyr Asp Gly Trp Val Thr Thr Gly Pro Ser  
                     325                      330                      335  
 Ala Tyr Cys Gly Gly Leu Trp Leu Ala Ala Val Ala Val Met Val Gln  
                     340                      345                      350  
 Met Ala Ala Leu Cys Gly Ala Gln Asp Ile Gln Asp Lys Phe Ser Ser  
                     355                      360                      365  
 Ile Leu Ser Arg Gly Gln Glu Ala Tyr Glu Arg Leu Leu Trp Asn Gly  
                     370                      375                      380  
 Arg Tyr Tyr Asn Tyr Asp Ser Ser Ser Arg Pro Gln Ser Arg Ser Val  
 385                      390                      395                      400  
 Met Ser Asp Gln Cys Ala Gly Gln Trp Phe Leu Lys Ala Cys Gly  
                     405                      410                      415

&lt;210&gt; 1478

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1478

Met Ser Leu Gly Gly Ser Gln Ser Ser Leu Val Ser Trp Arg Ala Thr  
 1 5 10 15

Gln Ile Ala Cys Met Thr Leu Ser Trp Pro Leu Trp Thr Cys Trp Leu  
 20 25 30

Ala Ala Pro Leu Ser Leu Thr Lys Ser Pro Trp Arg Gln Trp Ser Thr  
 35 40 45

His Val Lys Gly Phe Asn Leu Ala Ser Ser Gln Ala Glu Val Gln Pro  
 50 55 60

Val Gly Gln Thr Leu Ala Ser Glu Lys Lys Xaa Leu Gln Glu Val Leu  
 65 70 75 80

Ala Arg Ala Ile Gln His  
 85

&lt;210&gt; 1479

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (153)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (158)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1479

Met His Arg Leu Ile Phe Val Tyr Thr Leu Ile Cys Ala Asn Phe Cys  
 1 5 10 15

Ser Cys Arg Asp Thr Ser Ala Thr Pro Gln Ser Ala Ser Ile Lys Ala  
 20 25 30

Leu Arg Asn Ala Asn Leu Arg Arg Asp Glu Ser Asn His Leu Thr Asp  
 35 40 45

Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly Tyr Val  
 50 55 60

Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu Leu Thr  
 65 70 75 80

Trp Arg Leu His Ser Gln Glu Asn Thr Arg Ile Gln Leu Val Val Asp  
 85 90 95

Asn Gln Phe Gly Leu Glu Glu Ala Glu Asn Asp Ile Cys Arg Tyr Asp  
 100 105 110  
 Phe Val Glu Val Glu Asp Ile Ser Glu Thr Ser Thr Ile Ile Arg Gly  
 115 120 125  
 Arg Trp Cys Gly His Lys Glu Val Pro Pro Arg Ile Lys Ser Arg Thr  
 130 135 140  
 Asn His Ile Lys Ile Thr Phe Lys Xaa Asp Asp Tyr Phe Xaa Ala  
 145 150 155

<210> 1480  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1480  
 Leu Ile Ile Lys Lys Gly Lys Ile Trp Phe Pro Glu Lys Arg Pro Ile  
 1 5 10 15  
 Pro Lys His Phe Phe His Glu Lys His Cys Ile Leu Thr Tyr Val Asp  
 20 25 30  
 Xaa Asn Asn Leu Ser Pro Lys Pro Cys His Asn Asn Ile Ser Ala Leu  
 35 40 45  
 Glu Ile Lys Ser Leu Cys Phe Leu Cys Ile Leu Leu Arg His Xaa Tyr  
 50 55 60  
 Ser Phe Asn Thr Tyr Leu Lys Asn Leu Leu Arg Arg Phe Phe Ile Ile  
 65 70 75 80  
 Val Leu Gln Lys Thr Met Tyr Lys Leu  
 85

<210> 1481  
 <211> 370  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (216)  
 <223> Xaa equals any of the naturally occurring L-amino acids.

&lt;400&gt; 1481

Met His Arg Leu Ile Phe Val Tyr Thr Leu Ile Cys Ala Asn Phe Cys  
 1 5 10 15  
 Ser Cys Arg Asp Thr Ser Ala Thr Pro Gln Ser Ala Ser Ile Lys Ala  
 20 25 30  
 Leu Arg Asn Ala Asn Leu Arg Arg Asp Glu Ser Asn His Leu Thr Asp  
 35 40 45  
 Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly Tyr Val  
 50 55 60  
 Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu Leu Thr  
 65 70 75 80  
 Trp Arg Leu His Ser Gln Glu Asn Thr Arg Ile Gln Leu Val Phe Asp  
 85 90 95  
 Asn Gln Phe Gly Leu Glu Glu Ala Glu Asn Asp Ile Cys Arg Tyr Asp  
 100 105 110  
 Phe Val Glu Val Glu Asp Ile Ser Glu Thr Ser Thr Ile Ile Arg Gly  
 115 120 125  
 Arg Trp Cys Gly His Lys Glu Val Pro Pro Arg Ile Lys Ser Arg Thr  
 130 135 140  
 Asn Gln Ile Lys Ile Thr Phe Lys Ser Asp Asp Tyr Phe Val Ala Lys  
 145 150 155 160  
 Pro Gly Phe Lys Ile Tyr Tyr Ser Leu Leu Glu Asp Phe Gln Pro Ala  
 165 170 175  
 Ala Ala Ser Glu Thr Asn Trp Glu Ser Val Thr Ser Ser Ile Ser Gly  
 180 185 190  
 Val Ser Tyr Asn Ser Pro Ser Val Thr Asp Pro Thr Leu Ile Ala Asp  
 195 200 205  
 Ala Leu Asp Lys Lys Ile Ala Xaa Phe Asp Thr Val Glu Asp Leu Leu  
 210 215 220  
 Lys Tyr Phe Asn Pro Glu Ser Trp Gln Glu Asp Leu Glu Asn Met Tyr  
 225 230 235 240  
 Leu Asp Thr Pro Arg Tyr Arg Gly Arg Ser Tyr His Asp Arg Lys Ser  
 245 250 255  
 Lys Val Asp Leu Asp Arg Leu Asn Asp Asp Ala Lys Arg Tyr Ser Cys  
 260 265 270  
 Thr Pro Arg Asn Tyr Ser Val Asn Ile Arg Glu Glu Leu Lys Leu Ala  
 275 280 285  
 Asn Val Val Phe Phe Pro Arg Cys Leu Leu Val Gln Arg Cys Gly Gly  
 290 295 300  
 Asn Cys Gly Cys Gly Thr Val Asn Trp Arg Ser Cys Thr Cys Asn Ser  
 305 310 315 320

Gly Lys Thr Val Lys Lys Tyr His Glu Val Leu Gln Phe Glu Pro Gly  
 325 330 335  
 His Ile Lys Arg Arg Gly Arg Ala Lys Thr Met Ala Leu Val Asp Ile  
 340 345 350  
 Gln Leu Asp His His Glu Arg Cys Asp Cys Ile Cys Ser Ser Arg Pro  
 355 360 365  
 Pro Arg  
 370

<210> 1482  
 <211> 370  
 <212> PRT  
 <213> Homo sapiens

<400> 1482  
 Met His Arg Leu Ile Phe Val Tyr Thr Leu Ile Cys Ala Asn Phe Cys  
 1 5 10 15  
 Ser Cys Arg Asp Thr Ser Ala Thr Pro Gln Ser Ala Ser Ile Lys Ala  
 20 25 30  
 Leu Arg Asn Ala Asn Leu Arg Arg Asp Glu Ser Asn His Leu Thr Asp  
 35 40 45  
 Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly Tyr Val  
 50 55 60  
 Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu Leu Thr  
 65 70 75 80  
 Trp Arg Leu His Ser Gln Glu Asn Thr Arg Ile Gln Leu Val Phe Asp  
 85 90 95  
 Asn Gln Phe Gly Leu Glu Glu Ala Glu Asn Asp Ile Cys Arg Tyr Asp  
 100 105 110  
 Phe Val Glu Val Glu Asp Ile Ser Glu Thr Ser Thr Ile Ile Arg Gly  
 115 120 125  
 Arg Trp Cys Gly His Lys Glu Val Pro Pro Arg Ile Lys Ser Arg Thr  
 130 135 140  
 Asn Gln Ile Lys Ile Thr Phe Lys Ser Asp Asp Tyr Phe Val Ala Lys  
 145 150 155 160  
 Pro Gly Phe Lys Ile Tyr Tyr Ser Leu Leu Glu Asp Phe Gln Pro Ala  
 165 170 175  
 Ala Ala Ser Glu Thr Asn Trp Glu Ser Val Thr Ser Ser Ile Ser Gly  
 180 185 190  
 Val Ser Tyr Asn Ser Pro Ser Val Thr Asp Pro Thr Leu Ile Ala Asp  
 195 200 205



Ala Leu Asp Lys Lys Ile Ala Glu Phe Asp Thr Val Glu Asp Leu Leu  
 210 215 220  
 Lys Tyr Phe Asn Pro Glu Ser Trp Gln Glu Asp Leu Glu Asn Met Tyr  
 225 230 235 240  
 Leu Asp Thr Pro Arg Tyr Arg Gly Arg Ser Tyr His Asp Arg Lys Ser  
 245 250 255  
 Lys Val Asp Leu Asp Arg Leu Asn Asp Asp Ala Lys Arg Tyr Ser Cys  
 260 265 270  
 Thr Pro Arg Asn Tyr Ser Val Asn Ile Arg Glu Glu Leu Lys Leu Ala  
 275 280 285  
 Asn Val Val Phe Phe Pro Arg Cys Leu Leu Val Gln Arg Cys Gly Gly  
 290 295 300  
 Asn Cys Gly Cys Gly Thr Val Asn Trp Arg Ser Cys Thr Cys Asn Ser  
 305 310 315 320  
 Gly Lys Thr Val Lys Lys Tyr His Glu Val Leu Gln Phe Glu Pro Gly  
 325 330 335  
 His Ile Lys Arg Arg Gly Arg Ala Lys Thr Met Ala Leu Val Asp Ile  
 340 345 350  
 Gln Leu Asp His His Glu Arg Cys Asp Cys Ile Cys Ser Ser Arg Pro  
 355 360 365  
 Pro Arg  
 370

<210> 1483  
 <211> 229  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (206)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1483  
 Met Tyr Lys Leu Leu Leu Phe Asp Leu Leu Thr Val Leu Ala Val Ala  
 1 5 10 15  
 Leu Leu Ile Gln Phe Pro Arg Lys Leu Leu Cys Gly Leu Cys Pro Gly  
 20 25 30  
 Ala Leu Gly Arg Leu Ala Gly Thr Gln Glu Phe Gln Val Pro Asp Glu  
 35 40 45  
 Val Leu Gly Leu Ile Tyr Ala Gln Thr Val Val Trp Val Gly Ser Phe  
 50 55 60  
 Phe Cys Pro Leu Leu Pro Leu Leu Asn Thr Val Lys Phe Leu Leu Leu  
 65 70 75 80

Phe Tyr Leu Lys Lys Leu Thr Leu Phe Ser Thr Cys Ser Pro Ala Ala  
 85 90 95  
 Arg Thr Phe Arg Ala Ser Ala Ala Asn Phe Phe Phe Pro Leu Val Leu  
 100 105 110  
 Leu Leu Gly Leu Ala Ile Ser Ser Val Pro Leu Leu Tyr Ser Ile Phe  
 115 120 125  
 Leu Ile Pro Pro Ser Lys Leu Cys Gly Pro Phe Arg Gly Gln Ser Ser  
 130 135 140  
 Ile Trp Ala Gln Ile Pro Glu Ser Ile Ser Ser Leu Pro Glu Thr Thr  
 145 150 155 160  
 Gln Asn Phe Leu Phe Phe Leu Gly Thr Gln Ala Phe Ala Val Pro Leu  
 165 170 175  
 Leu Leu Ile Ser Ser Ile Leu Met Ala Tyr Thr Val Ala Leu Ala Asn  
 180 185 190  
 Ser Tyr Gly Arg Leu Ile Ser Glu Leu Lys Arg Gln Arg Xaa Thr Glu  
 195 200 205  
 Ala Gln Asn Lys Val Phe Leu Ala Arg Arg Ala Val Ala Leu Thr Ser  
 210 215 220  
 Thr Lys Pro Ala Leu  
 225

&lt;210&gt; 1484

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1484

Phe Leu Gly Thr Gln Ala Phe Ala Val Pro Leu Leu Ile Ser Arg  
 1 5 10 15

Ser Gln Thr Phe Gly Tyr Asn Gly Arg Ala Cys Gln Glu Trp Leu Pro  
 20 25 30

Xaa Leu Ile Ser Ser Ile Leu Met Ala Tyr Thr Val Ala Leu Ala Asn  
 35 40 45

Ser Tyr Gly Arg Leu Ile Ser Glu Leu Lys Arg Gln Arg Xaa Thr Glu  
 50 55 60

Ala Gln Asn Lys Val Phe Leu Ala Arg Arg Ala Val Ala Leu Thr Ser  
 65 70 75 80

Thr Lys Pro Ala Leu  
 85

<210> 1485

<211> 229

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1485

Met Tyr Lys Leu Leu Leu Phe Asp Leu Leu Thr Val Leu Ala Val Ala  
 1 5 10 15

Leu Leu Ile Gln Phe Pro Arg Lys Leu Leu Cys Gly Leu Cys Pro Gly  
 20 25 30

Ala Leu Gly Arg Leu Ala Gly Thr Gln Glu Phe Gln Val Pro Asp Glu  
 35 40 45

Val Leu Gly Leu Ile Tyr Ala Gln Thr Val Val Trp Val Gly Ser Phe  
 50 55 60

Phe Cys Pro Leu Leu Pro Leu Leu Asn Thr Val Lys Phe Leu Leu Leu  
 65 70 75 80

Phe Tyr Leu Lys Lys Leu Thr Leu Phe Ser Thr Cys Ser Pro Ala Ala  
 85 90 95

Arg Thr Phe Arg Ala Ser Ala Ala Asn Phe Phe Phe Pro Leu Val Leu  
 100 105 110

Leu Leu Gly Leu Ala Ile Ser Ser Val Pro Leu Leu Tyr Ser Ile Phe  
 115 120 125

Leu Ile Pro Pro Ser Lys Leu Cys Gly Pro Phe Arg Gly Gln Ser Ser  
 130 135 140

Ile Trp Ala Gln Ile Pro Glu Ser Ile Ser Ser Leu Pro Glu Thr Thr  
 145 150 155 160

Gln Asn Phe Leu Phe Phe Leu Gly Thr Gln Ala Phe Ala Val Pro Leu  
 165 170 175

Leu Leu Ile Ser Ser Ile Leu Met Ala Tyr Thr Val Ala Leu Ala Asn  
 180 185 190

Ser Tyr Gly Arg Leu Ile Ser Glu Leu Lys Arg Gln Arg Xaa Thr Glu  
 195 200 205

Ala Gln Asn Lys Val Phe Leu Ala Arg Arg Ala Val Ala Leu Thr Ser

210

215

220

Thr Lys Pro Ala Leu  
225

&lt;210&gt; 1486

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1486

Met Ala Thr Phe Ser Leu Cys Tyr Leu Met Ala Phe Pro Leu Cys Ala  
1 5 10 15

Gly Ile Ala Gly Ile Ser Val Cys Val Lys Ile Ser Cys Phe Tyr Lys  
20 25 30

Asp Ile Ser Gln Thr Gly Leu Arg Pro Thr Leu Lys Ala Tyr Leu Asn  
35 40 45

Phe Asn Leu Leu Phe Ser Gly Pro Ile Ser Lys Tyr Ser Leu Ile Leu  
50 55 60

Arg Tyr Trp Tyr Leu Gly Leu Gln His Thr Asn Phe Gly Val Asp Thr  
65 70 75 80

Ile Gln Pro Ile Thr Asn Cys Ala His Glu Met Ile Tyr  
85 90

&lt;210&gt; 1487

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1487

Ala Leu Pro Phe Thr Leu Asn Lys Thr Ser Asn Tyr Pro Gln Asp Leu  
 1 5 10 15

Val Leu Xaa Ser Leu Leu Leu Gly Xaa Asn Tyr Xaa Gln Leu Gln Ile  
 20 25 30

Leu Leu Glu Cys Ile Phe Pro Val Pro His Ser Leu Leu Tyr Val Val  
 35 40 45

Leu Pro Asn Ser Ile Asp Leu Xaa Gln Lys Leu Pro Arg Asp Leu Pro  
 50 55 60

His Leu Pro Cys Pro Xaa Phe Leu Trp Pro Arg Pro Gly Ser Pro Pro  
 65 70 75 80

Lys Cys Phe Leu Ser Leu Ser Leu Thr Ala Leu Pro Leu Ser Ser Cys  
 85 90 95

Arg Tyr Thr Leu Pro Pro Ser Pro His Pro Leu Met Pro Ser Pro Leu  
 100 105 110

Leu Pro Ser Trp Val Gln Pro Ser Cys Tyr Leu Ala  
 115 120

&lt;210&gt; 1488

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1488

Met Ala Thr Phe Ser Leu Cys Tyr Leu Met Ala Phe Pro Leu Cys Ala  
 1 5 10 15

Gly Ile Ala Gly Ile Ser Val Cys Val Lys Ile Ser Cys Phe Tyr Lys  
 20 25 30

Asp Ile Ser Gln Thr Gly Leu Arg Pro Thr Leu Lys Ala Tyr Leu Asn  
 35 40 45

Phe Asn Leu Leu Phe Ser Gly Pro Ile Gln Ile  
 50 55

&lt;210&gt; 1489

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1489

Gly Ser Gly Arg Gln Ala Gly Trp Pro Arg Gly Leu Leu Ser Gly Pro  
 1 5 10 15

Ala Pro Ser Glu Arg Ser Ala Val Ala Arg Leu Ala Pro Thr Glu Ser

20	25	30
Leu Ala Arg Met Glu Ala Val Val Asn Leu Tyr Gln Glu Val Met Lys		
35	40	45
His Ala Asp Pro Arg Ile Gln Gly Tyr Pro Leu Met Gly Ser Pro Leu		
50	55	60
Leu Met Thr Ser Ile Leu Leu Thr Tyr Val Tyr Phe Val Leu Ser Leu		
65	70	75
Gly Pro Arg Ile Met Ala Asn Arg Lys Pro Phe Gln Leu Arg Gly Phe		
85	90	95
Met Ile Val Tyr Asn Phe Ser Leu Val Ala Leu Ser Leu Tyr Ile Val		
100	105	110
Tyr Glu Phe Leu Met Ser Gly Trp Leu Ser Thr Tyr Thr Trp Arg Cys		
115	120	125
Asp Pro Val Asp Tyr Ser Asn Ser Pro Glu Ala Leu Arg Met Val Arg		
130	135	140
Val Ala Trp Leu Phe Leu Phe Ser Lys Phe Ile Glu Leu Met Asp Thr		
145	150	155
Val Ile Phe Ile Leu Arg Lys Lys Asp Gly Gln Val Thr Phe Leu His		
165	170	175
Val Phe His His Ser Val Leu Pro Trp Ser Trp Trp Trp Gly Val Lys		
180	185	190
Ile Ala Pro Gly Gly Met Gly Ser Phe His Ala Met Ile Asn Ser Ser		
195	200	205
Val His Val Ile Met Tyr Leu Tyr Tyr Gly Leu Ser Ala Phe Gly Pro		
210	215	220
Val Ala Gln Pro Tyr Leu Trp Trp Lys Lys His Met Thr Ala Ile Gln		
225	230	235
Leu Ile Gln Phe Val Leu Val Ser Leu His Ile Ser Gln Tyr Tyr Phe		
245	250	255
Met Ser Ser Cys Asn Tyr Gln Tyr Pro Val Ile Ile His Leu Ile Trp		
260	265	270
Met Tyr Gly Thr Ile Phe Phe Met Leu Phe Ser Asn Phe Trp Tyr His		
275	280	285
Ser Tyr Thr Lys Gly Lys Arg Leu Pro Arg Ala Leu Gln Gln Asn Gly		
290	295	300
Ala Pro Gly Ile Ala Lys Val Lys Ala Asn		
305	310	

&lt;210&gt; 1490

&lt;211&gt; 258

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1490

Met Lys His Ala Asp Pro Arg Ile Gln Gly Tyr Pro Leu Met Gly Ser  
 1 5 10 15  
 Pro Leu Leu Met Thr Ser Ile Leu Leu Thr Tyr Val Tyr Phe Val Leu  
 20 25 30  
 Ser Leu Gly Pro Arg Ile Met Ala Asn Arg Lys Pro Phe Gln Leu Arg  
 35 40 45  
 Gly Phe Met Ile Val Tyr Asn Phe Ser Leu Val Ala Leu Ser Leu Tyr  
 50 55 60  
 Ile Val Tyr Glu Phe Leu Met Ser Gly Trp Leu Ser Thr Tyr Thr Trp  
 65 70 75 80  
 Arg Cys Asp Pro Gln Asp Cys Thr Leu Gly Gln Cys Pro Ser Val Pro  
 85 90 95  
 Ser Pro Pro Thr Pro Val Thr Lys Ala Tyr Val Val Arg Thr Glu Gln  
 100 105 110  
 Gly Thr Gly Pro Pro Leu Pro Thr Ala Ala Leu Gln Gly Pro Arg Leu  
 115 120 125  
 Trp Phe Leu Thr His Phe Pro Arg Ala Ala Pro Gly Met Trp Pro His  
 130 135 140  
 Cys Cys Leu Pro Leu Gln Ser Trp Gly Leu Lys Gly Leu Tyr Ser Tyr  
 145 150 155 160  
 Phe Pro Leu Pro Ala Leu Lys Leu Gly Arg Gly Ala Leu Arg Ala Gly  
 165 170 175  
 Pro Thr Lys Gly Leu Val Ala Phe Phe Leu Thr Gln Lys Arg Ser Ala  
 180 185 190  
 Ile Met Ser Leu Trp Thr Gln Ser His Ser Ser Thr Pro His Thr Glu  
 195 200 205  
 Ala Val Ala Ser Gly Pro Lys Val Arg Val Gly Gly Gly Leu Gly Ile  
 210 215 220  
 Gln Pro Val Glu Ala Ala Tyr Ser Thr Cys Val Leu Ile Lys Ser Asp  
 225 230 235 240  
 Arg Gly Asn Gln Lys Lys Lys Lys Lys Lys Lys Leu Glu Asn Tyr Phe  
 245 250 255  
 Leu Lys

&lt;210&gt; 1491

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1491

Met Lys His Ala Asp Pro Arg Ile Gln Gly Tyr Pro Leu Met Gly Ser  
 1 5 10 15

Pro Leu Leu Met Thr Ser Ile Leu Leu Thr Tyr Val Tyr Phe Val Leu  
 20 25 30

Ser Leu Gly Pro Arg Ile Met Ala Asn Arg Lys Pro Phe Gln Leu Arg  
 35 40 45

Gly Phe Met Ile Val Tyr Asn Phe Ser Leu Val Ala Leu Ser Leu Tyr  
 50 55 60

Ile Val Tyr Glu Val Ile Phe Ile Leu Arg Lys Lys Asp Gly Gln Val  
 65 70 75 80

Thr Phe Leu His Val Phe His His Ser Val Leu Pro Trp Ser Trp Trp  
 85 90 95

Trp Gly Val Lys Ile Ala Pro Gly Gly Met Gly Ser Phe His Ala Met  
 100 105 110

Ile Asn Ser Ser Val His Val Ile Met Tyr Leu Tyr Tyr Gly Leu Ser  
 115 120 125

Ala Phe Gly Pro Val Ala Gln Pro Tyr Leu Trp Trp Lys Lys His Met  
 130 135 140

Thr Ala Ile Gln Leu Ile Gln Phe Val Leu Val Ser Leu His Ile Ser  
 145 150 155 160

Gln Tyr Tyr Phe Met Ser Ser Cys Asn Tyr Gln Tyr Pro Val Ile Ile  
 165 170 175

His Leu Ile Trp Met Tyr Gly Thr Ile Phe Phe Met Leu Phe Ser Asn  
 180 185 190

Phe Trp Tyr His Ser Tyr Thr Lys Gly Lys Arg Leu Pro Arg Ala Leu  
 195 200 205

Gln Gln Asn Gly Ala Pro Gly Ile Ala Lys Val Lys Ala Asn  
 210 215 220

&lt;210&gt; 1492

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1492

Met Tyr Gly Leu Ser Ile Cys Tyr Leu Lys Cys Leu Gly Pro Glu Val  
 1 5 10 15

Phe Trp Thr Phe Phe Leu Phe Trp Asn Thr Ser Ile Cys Ile Leu Pro  
 20 25 30

Val Glu His Pro Lys Ser Glu Ile Ser Lys Ile Gln Asn Val Pro Val  
 908



909

<210> 1495  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 1495  
 Met Gly Lys Pro Ser Leu Leu Phe Phe Gly Leu Met Ala Ser Trp Arg  
 1 5 10 15  
 Thr Arg Ser Gln Ala Arg Arg Thr Trp Ser Thr Ser Ser Arg Met Pro  
 20 25 30  
 Gly Arg Asn Val Leu Leu Arg Ser Arg Lys Arg Arg Ser Gln Ile Ser  
 35 40 45  
 Ser Ser Ile Ser Trp Ser Ile Ala Leu Gly Pro Val Met Pro Trp Pro  
 50 55 60  
 Gly Leu Ile Leu Phe Leu Lys Ile Ser Arg Ser Ser Thr Pro Thr Arg  
 65 70 75 80  
 Leu

<210> 1496  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 1496  
 Met Gly Lys Pro Ser Leu Leu Phe Phe Gly Leu Met Ala Ser Trp Arg  
 1 5 10 15  
 Thr Arg Ser Gln Ala Arg Arg Thr Trp Ser Thr Ser Ser Arg Met Pro  
 20 25 30  
 Gly Arg Asn Val Leu Leu Arg Ser Arg Lys Arg Arg Ser Gln Ile Ser  
 35 40 45  
 Ser Ser Ile Ser Trp Ser Ile Ala Leu Gly Pro Val Met Pro Trp Pro  
 50 55 60  
 Gly Leu Ile Leu Phe Leu Lys Ile Ser Arg Ser Ser Thr Pro Thr Arg  
 65 70 75 80  
 Leu

<210> 1497  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<220>

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1497

Met	Arg	Leu	Arg	Phe	Trp	Leu	Leu	Ile	Trp	Leu	Leu	Leu	Gly	Phe	Ile
1				5					10					15	

Ser	His	Gln	Pro	Thr	Pro	Val	Ile	Asn	Ser	Leu	Ala	Val	Tyr	Arg	His
			20				25						30		

Arg	Glu	Thr	Asp	Phe	Gly	Val	Arg	Val	Arg	Asp	His	Pro	Trp	Xaa
		35				40						45		

&lt;210&gt; 1498

&lt;211&gt; 394

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (73)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (194)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (200)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (210)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (225)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (237)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (389)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1498

Glu	Val	Ile	Asn	Thr	Leu	Ala	Asp	His	Arg	His	Arg	Gly	Thr	Asp	Phe
1				5					10					15	

Gly Gly Ser Pro Trp Leu Leu Ile Ile Thr Val Phe Leu Arg Ser Tyr  
                   20                                  25                                  30  
 Lys Phe Ala Ile Ser Leu Cys Thr Ser Tyr Leu Cys Val Ser Phe Leu  
                   35                                  40                                  45  
 Lys Thr Ile Phe Pro Ser Gln Asn Gly His Asp Gly Ser Thr Asp Val  
                   50                                  55                                  60  
 Gln Gln Arg Ala Arg Arg Ser Asn Xaa Arg Arg Gln Glu Gly Ile Lys  
                   65                                  70                                  75                                  80  
 Ile Val Leu Glu Asp Ile Phe Thr Leu Trp Arg Gln Val Glu Thr Lys  
                                   85                                  90                                  95  
 Val Arg Ala Lys Ile Arg Lys Met Lys Val Thr Thr Lys Val Asn Arg  
                   100                                  105                                  110  
 His Asp Lys Ile Asn Gly Lys Arg Lys Thr Ala Lys Glu His Leu Arg  
                   115                                  120                                  125  
 Lys Leu Ser Met Lys Glu Arg Glu His Gly Glu Lys Glu Arg Gln Val  
                   130                                  135                                  140  
 Ser Glu Ala Glu Glu Asn Gly Lys Leu Asp Met Lys Glu Ile His Thr  
                   145                                  150                                  155                                  160  
 Tyr Met Glu Met Phe Gln Arg Ala Gln Ala Leu Arg Arg Arg Ala Glu  
                                   165                                  170                                  175  
 Asp Tyr Tyr Arg Cys Lys Ile Thr Pro Ser Ala Arg Lys Pro Leu Cys  
                   180                                  185                                  190  
 Asn Xaa Val Arg Met Ala Ala Xaa Glu His Arg His Ser Ser Gly Leu  
                   195                                  200                                  205  
 Pro Xaa Trp Pro Tyr Leu Thr Ala Glu Thr Leu Lys Asn Arg Met Gly  
                   210                                  215                                  220  
 Xaa Gln Pro Pro Pro Pro Thr Gln Gln His Ser Ile Xaa Asp Asn Ser  
                   225                                  230                                  235                                  240  
 Leu Ser Leu Lys Thr Pro Pro Glu Cys Leu Leu His Pro Leu Pro Pro  
                                   245                                  250                                  255  
 Ser Val Asp Asp Asn Ile Lys Glu Cys Pro Leu Ala Pro Leu Pro Pro  
                   260                                  265                                  270  
 Ser Val Asp Asp Asn Leu Lys Glu Cys Leu Leu Val Pro Leu Pro Pro  
                   275                                  280                                  285  
 Ser Pro Leu Pro Pro Ser Val Asp Asp Asn Leu Lys Asp Cys Leu Phe  
                   290                                  295                                  300  
 Val Pro Leu Pro Pro Ser Pro Leu Pro Pro Ser Val Asp Asp Asn Leu  
                   305                                  310                                  315                                  320  
 Lys Thr Pro Pro Leu Ala Thr Gln Glu Ala Glu Ala Glu Lys Pro Pro  
                                   325                                  330                                  335

Lys Pro Lys Arg Trp Arg Val Asp Glu Val Glu Gln Ser Pro Lys Pro  
 340 345 350

Lys Arg Arg Arg Ala Asp Glu Val Glu Gln Ser Pro Lys Pro Lys Arg  
 355 360 365

Gln Arg Glu Ala Glu Ala Gln Gln Leu Pro Lys Pro Lys Arg Arg Arg  
 370 375 380

Leu Ser Lys Leu Xaa Thr Arg His Cys Thr  
 385 390

<210> 1499

<211> 212

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1499

Met Arg Leu Arg Phe Trp Leu Leu Ile Trp Leu Leu Leu Gly Phe Ile  
 1 5 10 15

Ser His Gln Pro Thr Pro Val Ile Asn Ser Leu Ala Val Tyr Arg His  
 20 25 30

Arg Glu Thr Asp Phe Gly Val Gly Val Arg Asp His Pro Gly Gln His  
 35 40 45

Gly Lys Thr Pro Ser Xaa Gln Lys Leu Asp Asn Leu Ile Ile Ile Ile  
 50 55 60

Ile Gly Phe Leu Arg Arg Tyr Thr Phe Xaa Ile Leu Phe Cys Thr Ser  
 65 70 75 80

Leu Pro Ser Pro Pro Pro Pro Pro Arg Phe Pro Gly Pro Val Gln Thr  
20 25 30

Pro Lys Ile Pro Gly Pro Ala Arg Gly Pro Arg Thr Gly Phe Gln Pro  
           35                          40                          45  
 Pro Ala Phe Ser Phe Pro Ser Pro Thr Pro Phe Phe Ser Ala Gly Thr  
           50                          55                          60  
 Pro Val Leu Ser Trp Lys Phe Ala Val Leu Cys Pro Ile Ala Gln Glu  
           65                          70                          75                          80  
 Leu Leu Pro Ala Glu Lys Gly Ala Arg Asn Lys Cys Ser Gly Leu Ser  
                           85                          90                          95  
 Arg Ser Tyr Ile Phe Ala Met Leu Pro Glu Met Gly Gly Xaa Asn Xaa  
                           100                          105                          110  
 Leu Xaa Gln Xaa Asn Glu Trp His Gly  
                           115                          120

<210> 1501  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

<400> 1501  
 Met Asp Arg Leu Lys Ser His Leu Thr Val Cys Phe Leu Pro Ser Val  
   1                          5                          10                          15  
 Pro Phe Leu Ile Leu Val Ser Thr Leu Ala Thr Ala Lys Ser Val Thr  
                           20                          25                          30  
 Asn Ser Thr Leu Asn Gly Thr Asn Val Val Leu Gly Ser Val Pro Val  
                           35                          40                          45  
 Ile Ile Ala Arg Thr Asp His Ile Ile Val Lys Glu Gly Asn Ser Ala  
                           50                          55                          60  
 Leu Ile Asn Cys Ser Val Tyr Gly Ile Pro Asp Pro Gln Phe Lys Trp  
                           65                          70                          75                          80  
 Tyr Asn Ser Ile Gly Lys Leu Leu Lys Glu Glu Glu Asp Glu Lys Glu  
                           85                          90                          95  
 Arg Gly Gly Gly Lys Trp Gln Met His Asp Ser Gly Leu Leu Asn Ile  
                           100                          105                          110  
 Thr Lys Val Ser Phe Ser Asp Arg Gly Lys Tyr Thr Val Cys Gly Phe  
                           115                          120                          125

<210> 1502  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1502  
 Leu Glu Phe Lys Xaa Pro Xaa Xaa Gln Val Pro Pro Trp Xaa Trp Leu  
     1                    5                    10                    15  
 Ser Leu Phe Lys Lys Tyr Arg Ser Ala Thr Ile Ala Asn Ala Arg Thr  
             20                    25                    30  
 Trp Val Phe Cys Ser Phe Phe Xaa Val Leu Ile Leu Leu Phe Leu Tyr  
             35                    40                    45  
 Asn Gly Val Ile Val Ile Asn Thr Asn Cys Ser Phe Trp Phe Ser Pro  
             50                    55                    60  
 His Cys His Phe Cys Pro Tyr Val Ser Leu Glu His Val Pro Gln Arg  
             65                    70                    75                    80  
 Leu Trp Tyr Gln Ser Pro Val Pro Gly Leu Ile Ser Thr Ser His Ile  
                     85                    90                    95  
 Thr Phe Val Met Phe Gln Ser Ser Tyr Glu Ala Cys Tyr Phe Phe Phe  
             100                    105                    110  
 Ile Pro Gln Ala Tyr Phe His Arg  
             115                    120

<210> 1503  
 <211> 409  
 <212> PRT  
 <213> Homo sapiens

<400> 1503  
 Met Asp Arg Leu Lys Ser His Leu Thr Val Cys Phe Leu Pro Ser Val



917

918

<210> 1505  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 1505  
 Met Lys Ala Lys Arg Asn Lys Gly Arg Trp Val Ala Ala Gly Pro Thr  
 1                   5                   10                   15  
 Ala Ala Thr Ala Trp Ile Val Leu Thr Val Gln Ala Ala Cys Pro Glu  
 20                   25                   30  
 Gly Lys Cys Pro Leu Pro Gly Val Cys Ala Pro Ile Thr Trp Ala Pro  
 35                   40                   45  
 Ser Tyr Leu Thr Ala Gly Lys Ala Lys Leu Ala Gly Pro Arg Thr Tyr  
 50                   55                   60  
 Lys Pro Gly Pro Val Leu Lys Ala Ala His Leu Pro Met Gly Gln His  
 65                   70                   75                   80  
 Pro His Thr Thr Pro Trp Trp Gln Pro Leu Phe Ile Ile Ser Val Ser  
 85                   90                   95  
 Arg Tyr Pro Pro Arg Thr Pro Lys Gln His  
 100                   105

<210> 1506  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 1506  
 Met Lys Ala Lys Arg Asn Lys Gly Arg Trp Val Ala Ala Gly Pro Thr  
 1                   5                   10                   15  
 Ala Ala Thr Ala Trp Ile Val Leu Thr Val Gln Ala Ala Cys Pro Glu  
 20                   25                   30  
 Gly Lys Cys Pro Leu Pro Gly Val Cys Ala Pro Ile Thr Trp Ala Pro  
 35                   40                   45  
 Ser Tyr Leu Thr Ala Gly Lys Ala Lys Leu Ala Gly Pro Arg Thr Tyr  
 50                   55                   60  
 Lys Pro Gly Pro Val Leu Lys Ala Ala His Leu Pro Met Gly Gln His  
 65                   70                   75                   80  
 Pro His Thr Thr Pro Trp Trp Gln Pro Leu Phe Ile Ile Ser Val Ser  
 85                   90                   95  
 Arg Tyr Pro Pro Arg Thr Pro Lys Gln His  
 100                   105

<210> 1507  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 1507

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Met Val Ser Cys Trp Asp Gln Asn Leu Ile Leu Phe Leu Thr Cys Leu
 1              5              10              15

Leu Ala Val Leu Ile Phe Cys Leu Val Leu Ala Val Tyr Ile Val Phe
      20              25              30

Phe Lys Phe Leu Lys Ala Ser Leu Ile Tyr Val Pro Arg Glu Trp Val
      35              40              45

Thr Leu Thr Lys Ala Asn Asp Val Gln Lys Gly His Asp Leu Gly Leu
      50              55              60

Ser Tyr Cys Arg Thr Gln Ser Thr Ala Trp Pro Pro Pro Cys Leu Gly
      65              70              75              80

His His Leu His Leu Glu Ser Ser Leu Thr Leu Glu Ser Phe Gly Leu
      85              90              95

Leu Thr Ile Pro Ile Ser Asp Ser Val Ser Leu Ile Thr
      100              105

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<210> 1508  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1508

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Gly Val Arg Ile Asp Ala Ser Gly Ser Leu Ala Ala Val Leu Pro Leu
 1              5              10              15

Asn His Tyr Thr Ile Thr Glu Phe Asn Phe Leu Gln Phe Gln Gly Xaa
      20              25              30

Thr Glu Leu Ser Ser Asp Ser Lys Ile Arg Ile Ser Asn Arg Glu Trp
      35              40              45

Ile His Leu Arg Ile Gly Glu Thr Asp Ile His Asp Leu Lys Gln Lys
      50              55              60

Ser Glu Thr Lys Leu Ile Asn
      65              70

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<210> 1509  
 <211> 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1509

Met Val Ser Cys Trp Asp Gln Asn Leu Ile Leu Phe Leu Thr Cys Leu  
 1 5 10 15

Leu Ala Val Leu Ile Phe Cys Leu Val Leu Ala Val Tyr Ile Val Phe  
 20 25 30

Phe Lys Phe Leu Lys Ala Ser Leu Ile Tyr Val Pro Arg Glu Trp Val  
 35 40 45

Thr Leu Thr Lys Ala Asn Asp Val Gln Lys Gly His Asp Leu Gly Leu  
 50 55 60

Ser Tyr Cys Arg Thr Gln Ser Thr Ala Trp Pro Pro Pro Cys Leu Gly  
 65 70 75 80

His His Leu His Leu Glu Ser Ser Leu Thr Leu Glu Ser Phe Gly Leu  
 85 90 95

Leu Thr Ile Pro Ile Ser Asp Ser Val Ser Leu Ile Thr  
 100 105

&lt;210&gt; 1510

&lt;211&gt; 82

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1510

Met Gly Leu Gln Ser Arg Leu Ser Gln Pro Cys His Cys Arg His Leu  
 1 5 10 15

Gly Leu Gly Asn Ser Val Val Gly Thr Val Leu Phe Leu Val Gly Cys  
 20 25 30

Leu Val Ala Ser Leu Pro Pro Pro Thr Arg Cys Gln Gly His Cys Ser  
 35 40 45

Pro Gln Pro Pro Ala Pro Val Val Thr Ile Val Ser Lys His Cys Gln  
 50 55 60

Met Val Gln Gly Lys Gly Lys Ile Ala Pro Val Glu Lys Ser Thr Ala  
 65 70 75 80

Val Lys

&lt;210&gt; 1511

&lt;211&gt; 82

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1511

Met Gly Leu Gln Ser Arg Leu Ser Gln Pro Cys His Cys Arg His Leu

1                      5                      10                      15  
 Gly Leu Gly Asn Ser Val Val Gly Thr Val Leu Phe Leu Val Gly Cys  
                     20                      25                      30  
 Leu Val Ala Ser Leu Pro Pro Pro Thr Arg Cys Gln Gly His Cys Ser  
                     35                      40                      45  
 Pro Gln Pro Pro Ala Pro Val Val Thr Ile Val Ser Lys His Cys Gln  
                     50                      55                      60  
 Met Val Gln Gly Lys Gly Lys Ile Ala Pro Val Glu Lys Ser Thr Ala  
                     65                      70                      75                      80  
 Val Lys

<210> 1512  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<400> 1512  
 Met Lys Arg Gln Arg Leu Pro Leu Ala Leu Gln Asn Leu Phe Leu Tyr  
   1                      5                      10                      15  
 Thr Phe Gly Val Leu Leu Asn Leu Gly Leu His Ala Gly Gly Gly Ser  
                     20                      25                      30  
 Gly Pro Gly Leu Leu Glu Gly Phe Ser Gly Trp Ala Ala Leu Val Val  
                     35                      40                      45  
 Leu Ser Gln Ala Leu Asn Gly Leu Leu Met Ser Ala Val Met Lys His  
                     50                      55                      60  
 Gly Ser Ser Ile Thr Arg Leu Phe Val Val Ser Cys Ser Leu Val Val  
                     65                      70                      75                      80  
 Asn Ala Val Leu Ser Ala Val Leu Leu Arg Leu Gln Leu Thr Ala Ala  
                     85                      90                      95  
 Phe Phe Leu Ala Thr Leu Leu Ile Gly Leu Ala Met Arg Leu Tyr Tyr  
                     100                      105                      110  
 Gly Ser Arg  
                     115

<210> 1513  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<400> 1513  
 Met Lys Arg Gln Arg Leu Pro Leu Ala Leu Gln Asn Leu Phe Leu Tyr  
   1                      5                      10                      15

Thr Phe Gly Val Leu Leu Asn Leu Gly Leu His Ala Gly Gly Gly Ser  
                   20                  25                  30  
 Gly Pro Gly Leu Leu Glu Gly Phe Ser Gly Trp Ala Ala Leu Val Val  
                   35                  40                  45  
 Leu Ser Gln Ala Leu Asn Gly Leu Leu Met Ser Ala Val Met Lys His  
                   50                  55                  60  
 Gly Ser Ser Ile Thr Arg Leu Phe Val Val Ser Cys Ser Leu Val Val  
                   65                  70                  75                  80  
 Asn Ala Val Leu Ser Ala Val Leu Leu Arg Leu Gln Leu Thr Ala Ala  
                   85                  90                  95  
 Phe Phe Leu Ala Thr Leu Leu Ile Gly Leu Ala Met Arg Leu Tyr Tyr  
                   100                  105                  110  
 Gly Ser Arg  
                   115

<210> 1514  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1514  
 Met Leu Thr Gly Val Ile Ser Gly Ser Thr Gly Ala Met Ala Leu Ser  
   1                  5                  10                  15  
 Leu Ala Ser Leu Ser Ala His Cys Phe Ala Phe Arg Cys Leu Ala Ala  
                   20                  25                  30  
 Pro Phe Tyr Phe Phe Ala Gly Leu Gly Lys His Gly Arg Arg Ile Leu  
                   35                  40                  45  
 Ile Ser Phe Leu Phe Ser Ala Trp  
                   50                  55

<210> 1515  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1515  
 Met Leu Thr Gly Val Ile Ser Gly Ser Thr Gly Ala Met Ala Leu Ser  
   1                  5                  10                  15  
 Leu Ala Ser Leu Ser Ala His Cys Phe Ala Phe Arg Cys Leu Ala Ala  
                   20                  25                  30  
 Pro Phe Tyr Phe Phe Ala Gly Leu Gly Lys His Gly Arg Arg Ile Leu  
                   35                  40                  45  
 Ile Ser Phe Leu Phe Ser Ala Trp  
                   50                  55





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<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids.
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&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1519

Asp Tyr Ile Leu Met Arg Gln Leu Arg Pro Ala Asn Phe Cys Ile Phe  
 1 5 10 15

Ser Arg Asp Arg Phe His Pro Val Ser Gln Ala Gly Leu Glu Leu Leu  
 20 25 30

Thr Ser Ser Asp Leu Xaa Ala Phe Gly Leu Pro Lys Tyr Trp Tyr Tyr  
 35 40 45

Arg His Glu Pro Pro Cys Leu Ala Ser Xaa  
 50 55

&lt;210&gt; 1520

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1520

Met Ala Ser Trp Pro Phe Leu Ser Pro Met Gly Pro Ile Ala Leu Ala  
 1 5 10 15

Leu Leu Thr Gln Ala Leu Ser Ser Xaa Val Gly Leu Cys Leu Ala Leu  
 20 25 30

Thr Cys Ser Arg Arg Pro Ser Pro Asp Ser Val Cys Ala Ser Cys Arg  
 35 40 45

Phe Pro Leu Val Pro Leu Cys Cys Gln Pro Ser Leu Pro Ala Leu Leu  
 50 55 60

Arg Pro Val Ser His Cys Arg Tyr Pro Gly Thr Ser Trp Val Ser Xaa  
 65 70 75 80

&lt;210&gt; 1521

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1521

Val	Asp	Leu	Val	Ser	Val	Asn	Val	Gly	Ser	Glu	Phe	Leu	Val	Thr	Leu
1				5				10					15		

Leu	Phe	Phe	Leu	Gly	Pro	Val	Thr	Gly	His	Leu	Asp	Arg	Leu	Asn	Ala
			20					25					30		

Ile	Leu	Glu	Leu	Asp	Ser	Tyr	Val	Phe	Ile	Cys	Thr	Pro	Xaa	Ser	His
		35					40					45			

Leu	Pro	Val	Ala	Ser	Ser	Asp	Ala
	50					55	

&lt;210&gt; 1522

&lt;211&gt; 151

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (95)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (117)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (122)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (132)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (139)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1522

Met Pro Leu Phe Thr Arg Phe His Pro Ala Leu Gly Pro Leu Ala  
1 5 10 15Leu Ser Leu Leu Ala Gly Phe Ala Ala Gly Ser Leu Gln Ala Ile Gly  
20 25 30Arg Thr Glu Glu Lys Gly Val Arg Val Leu Thr Ser Gln Ala Pro Pro  
35 40 45Tyr Arg Val Met Gly Xaa Leu His Ser Ser Thr Lys Gly Phe Ser Phe  
50 55 60Cys Gln Gly Val Cys Pro Arg Ala Leu Ser Leu Trp Val Thr Thr Pro  
65 70 75 80Leu Phe Leu Pro Pro Ser Pro Arg Leu Ala Met Xaa Pro Thr Xaa Ser  
85 90 95Cys Pro Gly Tyr Cys His His Val Ser Leu Tyr Pro Val Tyr Ala Leu  
100 105 110Gln Leu Val Leu Xaa Gln Ile Leu Leu Xaa Trp Pro Asn Leu Met Xaa  
115 120 125Tyr Trp Tyr Xaa His Leu Met Thr Gly Pro Xaa Ser Asp Gln Lys Arg  
130 135 140Lys Ser Val Val Thr Leu Val  
145 150

&lt;210&gt; 1523

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1523

Arg Val Asp Asn Phe Leu Cys Gln Phe Ile Arg Ile Tyr Leu Ile Leu  
1 5 10 15Leu Ser Ser His Ile Ile Phe His Asn Thr Asn Val Ser Cys Tyr Pro  
20 25 30Met Glu Ser His Leu Leu Phe Ser Tyr Asn Asn Thr Ala Val Ser Ile  
35 40 45

Leu Val His Arg Phe Phe Asn Ile Xaa Ile Ser Lys Phe Leu Lys Val

50

55

60

Ile Ser Trp Asp Arg Asn Arg Asn Gly Ile Gly Ile Ser Lys Ser  
65 70 75

&lt;210&gt; 1524

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1524

Met Pro Leu Phe Phe Thr Arg Phe His Pro Ala Leu Gly Pro Leu Ala  
1 5 10 15

Leu Ser Leu Leu Ala Gly Phe Ala Ala Gly Ser Leu Gln Ala Ile Gly  
20 25 30

Arg Thr Glu Glu Lys Gly Val Arg Val Leu Thr Ser Gln Ala Pro Pro  
35 40 45

Tyr Arg Val Met Gly Gln Leu His Ser Ser Thr Lys Gly Phe Ser Phe  
50 55 60

Cys Gln Gly Val Cys Pro Arg Ala Leu Ser Leu Trp Val Thr Thr Pro  
65 70 75 80

Leu Phe Leu Pro Pro Ser Pro Arg Leu Ala Met Val Pro Thr Val Ser  
85 90 95

Cys Pro Gly Tyr Cys Pro Ser Cys Phe Ser Val Ser Cys Leu Cys Phe  
100 105 110

Thr Thr Gly Pro Ser Ser Asn Ser Ala  
115 120

&lt;210&gt; 1525

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1525

Met Gly Pro Val Ser Glu Leu Ser Ile Phe Ile Leu Leu Phe Val Phe  
1 5 10 15

Cys Phe Xaa Phe Ser Leu Met Pro Asp Ile Arg Arg Thr Leu His Phe  
20 25 30

Trp Leu His Ser Leu Leu Tyr Pro His Glu Thr Asp Gln Cys Leu Gln  
35 40 45

Ser Ser Ala Ile Pro Phe Gln Val Phe Tyr Val Gln Gln Lys Lys Arg



Ala Ser Leu Ser Ser Ser Ser His Ile Ile Lys Gly Ile Ala Pro Leu  
 65 70 75 80

Leu Asn Gln Ser Val Asn His Ser Gly Pro Ile  
 85 90

<210> 1528

<211> 336

<212> PRT

<213> Homo sapiens

<400> 1528

Met Ala Leu Ala Arg Pro Val Arg Leu Phe Ser Leu Val Thr Arg Leu  
 1 5 10 15

Leu Leu Ala Pro Arg Arg Gly Leu Thr Val Arg Ser Pro Asp Glu Pro  
 20 25 30

Leu Pro Val Val Arg Ile Pro Val Ala Leu Gln Arg Gln Leu Glu Gln  
 35 40 45

Arg Gln Ser Arg Arg Arg Asn Leu Pro Arg Pro Val Leu Val Arg Pro  
 50 55 60

Gly Pro Leu Leu Val Ser Ala Arg Arg Pro Glu Leu Asn Gln Pro Ala  
 65 70 75 80

Arg Leu Thr Leu Gly Arg Trp Glu Arg Ala Pro Leu Ala Ser Gln Gly  
 85 90 95

Trp Lys Ser Arg Arg Ala Arg Arg Asp His Phe Ser Ile Glu Arg Ala  
 100 105 110

Gln Gln Glu Ala Pro Ala Val Arg Lys Leu Ser Ser Lys Gly Ser Phe  
 115 120 125

Ala Asp Leu Gly Leu Glu Pro Arg Val Leu His Ala Leu Gln Glu Ala  
 130 135 140

Ala Pro Glu Val Val Gln Pro Thr Thr Val Gln Ser Ser Thr Ile Pro  
 145 150 155 160

Ser Leu Leu Arg Gly Arg His Val Val Cys Ala Ala Glu Thr Gly Ser  
 165 170 175

Gly Lys Thr Leu Ser Tyr Leu Leu Pro Leu Leu Gln Arg Leu Leu Gly  
 180 185 190

Gln Pro Ser Leu Asp Ser Leu Pro Ile Pro Ala Pro Arg Gly Leu Val  
 195 200 205

Leu Val Pro Ser Arg Glu Leu Ala Gln Gln Val Arg Ala Val Ala Gln  
 210 215 220

Pro Leu Gly Arg Ser Leu Gly Leu Leu Val Arg Asp Leu Glu Gly Gly  
 225 230 235 240

932



Ala Pro Glu Val Val Gln Pro Thr Thr Val Gln Ser Ser Thr Ile Pro  
 145 150 155 160  
 Ser Leu Leu Arg Gly Arg His Val Val Cys Ala Ala Glu Thr Gly Ser  
 165 170 175  
 Gly Lys Thr Leu Ser Tyr Leu Leu Pro Leu Leu Gln Arg Leu Leu Gly  
 180 185 190  
 Gln Pro Ser Leu Asp Ser Leu Pro Ile Pro Ala Pro Arg Gly Leu Val  
 195 200 205  
 Leu Val Pro Ser Arg Glu Leu Ala Gln Gln Val Arg Ala Val Ala Xaa  
 210 215 220  
 Pro Leu Gly Arg Ser Leu Gly Leu Leu Val Arg Asp Leu Glu Gly Gly  
 225 230 235 240  
 His Gly Met Arg Arg Ile Arg Leu Gln Leu Ser Arg Gln Pro Ser Ala  
 245 250 255  
 Asp Val Leu Val Ala Thr Pro Gly Ala Leu Trp Lys Ala Leu Lys Ser  
 260 265 270  
 Arg Leu Ile Ser Leu Glu Gln Leu Ser Phe Leu Val Leu Asp Glu Ala  
 275 280 285  
 Asp Thr Leu Leu Asp Glu Ser Phe Leu Glu Leu Val Asp Tyr Ile Leu  
 290 295 300  
 Glu Lys Ser His Ile Ala Glu Gly Pro Ala Asp Leu Glu Asp Pro Phe  
 305 310 315 320  
 Asn Pro Lys Ala Gln Leu Val Leu Val Gly Ala Thr Phe Pro Glu Val  
 325 330 335

<210> 1530  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 1530  
 Met Ser Phe Arg Ser Glu Leu Ala Met Trp Phe Gln Ala Ala Leu Val  
 1 5 10 15  
 Ser Ser Leu Val Leu Pro Thr Pro Pro Gly Ser Gly Gly Thr Ser Arg  
 20 25 30  
 Arg Lys Lys Trp Ile Lys Ser Trp Arg Asp Phe Lys Gln Tyr Leu Thr  
 35 40 45  
 His Ser Ser Arg His Asp Ser His Gln Leu Arg Ser Ser Asn Ala Phe  
 50 55 60

Leu Phe Asp Ala Gln Glu Asp Pro Ser Ala Leu Asp Ile Ala Ser Pro  
 65 70 75 80  
 Gly Gly Met Ala Ala Glu Asp Glu Ile Gln Arg Gln Arg  
 85 90

<210> 1531  
 <211> 219  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1531  
 Ala Ala Ala Thr Ala Ala Ser Leu Ser Pro Arg Gly Cys Arg Leu Arg  
 1 5 10 15  
 Thr Pro Ser Ser Asp Val Ser Pro Ser Arg Ala Pro Pro Pro Ser Ala  
 20 25 30  
 Ala Pro Leu Pro Thr Gly Arg Ala Xaa Met Ser Pro Ser Gly Arg Leu  
 35 40 45  
 Cys Leu Leu Thr Ile Val Gly Leu Ile Leu Pro Thr Arg Gly Gln Thr  
 50 55 60  
 Leu Lys Asp Thr Thr Ser Ser Ser Ser Ala Asp Ser Thr Ile Met Asp  
 65 70 75 80  
 Ile Gln Val Pro Thr Arg Ala Pro Asp Ala Val Tyr Thr Glu Leu Gln  
 85 90 95  
 Pro Thr Ser Pro Thr Pro Thr Trp Pro Ala Asp Glu Thr Pro Gln Pro  
 100 105 110  
 Gln Thr Gln Thr Gln Gln Leu Glu Gly Thr Asp Gly Pro Leu Val Thr  
 115 120 125  
 Asp Pro Glu Thr His Lys Ser Thr Lys Ala Ala His Pro Thr Asp Asp  
 130 135 140  
 Thr Thr Thr Leu Ser Glu Arg Pro Ser Pro Ser Thr Asp Val Gln Thr  
 145 150 155 160  
 Asp Pro Gln Thr Leu Lys Pro Ser Gly Phe His Glu Asp Asp Pro Phe  
 165 170 175  
 Phe Tyr Asp Glu His Thr Leu Arg Lys Arg Gly Leu Leu Val Ala Ala  
 180 185 190  
 Val Leu Phe Ile Thr Gly Ile Ile Ile Leu Thr Ser Gly Lys Cys Arg  
 195 200 205  
 Gln Leu Ser Arg Leu Cys Arg Asn His Cys Arg  
 210 215

<210> 1532  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

<400> 1532  
 Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile  
           1                  5                  10                  15  
 Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser Ser  
                   20                  25                  30  
 Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp  
                   35                  40                  45  
 Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro  
                   50                  55                  60  
 Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Gly  
                   65                  70                  75                  80  
 Thr Asp Gly Pro Leu Val Thr Asp Pro Glu Thr His Lys Ser Thr Lys  
                   85                  90                  95  
 Ala Ala His Pro Thr Asp Asp Thr Thr Thr Leu Ser Glu Arg Pro Ser  
                   100                  105                  110  
 Pro Ser Thr Asp Val Gln Thr Asp Pro Gln Thr Leu Lys Pro Ser Gly  
                   115                  120                  125  
 Phe His Glu Asp Asp Pro Phe Phe Tyr Asp Glu His Thr Leu Arg Lys  
                   130                  135                  140  
 Arg Gly Leu Leu Val Ala Ala Val Leu Phe Ile Thr Gly Ile Ile Ile  
                   145                  150                  155                  160  
 Leu Thr Ser Gly Lys Cys Arg Gln Leu Ser Arg Leu Cys Arg Asn His  
                   165                  170                  175  
 Cys Arg

<210> 1533  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens

<400> 1533  
 Met Glu Leu Pro Ala Val Asn Leu Lys Val Ile Leu Leu Gly His Trp  
           1                  5                  10                  15  
 Leu Leu Thr Thr Trp Gly Cys Ile Val Phe Ser Gly Ser Tyr Ala Trp  
                   20                  25                  30  
 Ala Asn Phe Thr Ile Leu Ala Leu Gly Val Trp Ala Val Ala Gln Arg

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<210> 1534
<211> 159
<212> PRT
<213> Homo sapiens
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<400> 1534
Met Glu Leu Pro Ala Val Asn Leu Lys Val Ile Leu Leu Gly His Trp
  1             5             10             15

Leu Leu Thr Thr Trp Gly Cys Ile Val Phe Ser Gly Ser Tyr Ala Trp
      20             25             30

Ala Asn Phe Thr Ile Leu Ala Leu Gly Val Trp Ala Val Ala Gln Arg
      35             40             45

Asp Ser Ile Asp Ala Ile Ser Met Phe Leu Gly Gly Leu Leu Ala Thr
  50             55             60

Ile Phe Leu Asp Ile Val His Ile Ser Ile Phe Tyr Pro Arg Val Ser
  65             70             75             80

Leu Thr Asp Thr Gly Arg Phe Gly Val Gly Met Ala Ile Leu Ser Leu
      85             90             95

Leu Leu Lys Pro Leu Ser Cys Cys Phe Val Tyr His Met Tyr Arg Glu
      100            105            110

Arg Gly Gly Glu Leu Leu Val His Thr Gly Phe Leu Gly Ser Ser Gln
      115            120            125

Asp Arg Ser Ala Tyr Gln Thr Ile Asp Ser Ala Glu Ala Pro Ala Asp
      130            135            140

Pro Phe Ala Val Pro Glu Gly Arg Ser Gln Asp Ala Arg Gly Tyr
      145            150            155

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<210> 1535  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<400> 1535  
 Met Pro Leu Ala Pro Leu Leu Leu Val Leu Ser Pro Phe Ser Phe Asp  
 1 5 10 15  
 Gln Val Val Gln Ala Arg Leu Glu Val Pro Val Phe Lys Gln Arg Asp  
 20 25 30  
 Leu Cys Asn Tyr Val Leu Ile Leu Val Gly Ala Gln Leu Lys Pro Leu  
 35 40 45  
 Ala Met Leu Val Lys Asn Ile Arg Asp Tyr Arg Leu Glu Pro Pro Cys  
 50 55 60  
 Pro Ala Cys Ile Asp Thr Phe Tyr Pro Thr Phe Lys Thr Gly Met Phe  
 65 70 75 80  
 Ser Leu Cys Phe Lys Met Pro Leu Lys Tyr Phe  
 85 90

<210> 1536  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 1536  
 Ser Ala Thr His Gln Gln Ala Leu Val Cys Asp Val Leu Leu Pro Val  
 1 5 10 15  
 Ser Met Cys Ser His Glu Asn Leu Tyr Ile Leu Cys Ser Gly Val Ser  
 20 25 30  
 Tyr Phe Ile Phe Phe Phe Ser Cys Val Thr Ser Val Thr Ser Gly Leu  
 35 40 45  
 Gly Ile Pro Ser Tyr Pro Glu Val Arg Lys Tyr Ser Ser Ile Phe Phe  
 50 55 60

<210> 1537  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<400> 1537  
 Met Pro Leu Ala Pro Leu Leu Leu Val Leu Ser Pro Phe Ser Phe Asp  
 1 5 10 15

Gln Val Val Gln Ala Arg Leu Glu Val Pro Val Phe Lys Gln Arg Asp  
 20 25 30  
 Leu Cys Asn Tyr Val Leu Ile Leu Val Gly Ala Gln Leu Lys Pro Leu  
 35 40 45  
 Ala Met Leu Val Lys Asn Ile Arg Asp Tyr Arg Leu Glu Pro Pro Cys  
 50 55 60  
 Pro Ala Cys Ile Asp Thr Phe Tyr Pro Thr Phe Lys Thr Gly Met Phe  
 65 70 75 80  
 Ser Leu Cys Phe Lys Met Pro Leu Lys Tyr Phe  
 85 90

<210> 1538  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (93)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (98)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (104)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (106)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1538  
 Met Asp Leu Trp Thr Thr Ser Phe Phe Phe Phe Ala Val Met His Asn  
 1 5 10 15

Ala Ala Met Asn Ile Asn Val Gln Val Ser Glu Ser Gly Phe Ser Phe  
 20 25 30

Trp Gly Arg Tyr Leu Gly Val Glu Leu Leu Gly Cys Val Val Asn Leu  
 35 40 45

Tyr Leu Phe Lys Lys Trp Pro Asn Cys Phe Leu Asn Gly Cys Ile Ile  
 50 55 60

Leu His Pro His Gln Gln Tyr Ile Arg Val Ser Cys Phe Ser Thr Ser  
 65 70 75 80

Tyr Leu Leu Met Ala Phe Lys Asn Tyr Arg His Ser Xaa Lys Cys Glu

85

90

95

Val Xaa Pro His Cys Ser Leu Xaa Cys Xaa Phe Leu Ile Thr Met Met  
 100 105 110

&lt;210&gt; 1539

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1539

Met Asp Leu Trp Thr Thr Ser Phe Phe Phe Phe Ala Val Met His Asn  
 1 5 10 15

Ala Ala Met Asn Ile Asn Val Gln Val Ser Glu Ser Gly Phe Ser Phe  
 20 25 30

Trp Gly Arg Tyr Leu Gly Val Glu Leu Leu Gly Cys Val Val Asn Leu  
 35 40 45

Tyr Leu Phe Lys Lys Trp Pro Asn Cys Phe Leu Asn Gly Cys Ile Ile  
 50 55 60

Leu His Pro His Gln Gln Tyr Ile Arg Val Ser Cys Phe Ser Thr Ser  
 65 70 75 80

Tyr Leu Leu Met Ala Phe Lys Asn Tyr Arg His Ser Cys Lys Cys Glu  
 85 90 95

Val Val Ser His Cys Ser Phe Ser Leu His Phe Pro Asn Asn Asn Asp  
 100 105 110

Val

&lt;210&gt; 1540

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1540

Met Asp Leu Trp Thr Thr Ser Phe Phe Phe Phe Ala Val Met His Asn  
 1 5 10 15

Ala Ala Met Asn Ile Asn Val Gln Val Ser Glu Ser Gly Phe Ser Phe  
 20 25 30

Trp Gly Arg Tyr Leu Gly Val Glu Leu Leu Gly Cys Val Val Asn Leu  
 35 40 45

Tyr Leu Phe Lys Lys Trp Pro Asn Cys Phe Leu Asn Gly Cys Ile Ile  
 50 55 60

Leu His Pro His Gln Gln Tyr Ile Arg Val Ser Cys Phe Ser Thr Ser  
 65 70 75 80  
 Tyr Leu Leu Met Ala Phe Lys Asn Tyr Arg His Ser Cys Lys Cys Glu  
 85 90 95  
 Val Val Ser His Cys Ser Phe Ser Leu His Phe Pro Asn Asn Asn Asp  
 100 105 110  
 Val

<210> 1541  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 1541  
 Met Arg Met Ser Leu Ala Asp Ser Leu Ala Cys Ser Val Cys Val Ala  
 1 5 10 15  
 Leu Thr Ala Ala Ala Arg Leu Leu Arg Ser Arg Pro Ser Ser Cys Ser  
 20 25 30  
 Ser Phe Ser Trp Ile Ser Gly Thr Ser Ser Ser Pro Ser Phe Leu Gly  
 35 40 45  
 Ser Phe Thr Ser Leu Leu Gly Ser Ser Leu Ser Ser Leu Gly Asp Ser  
 50 55 60  
 Leu Leu Gly Arg Gly Thr Leu Gly Asn Phe Trp Glu Val Leu Ile Ser  
 65 70 75 80  
 Thr Ser Thr Ser Ser Trp Ala Asp Phe Ser Ser Leu Val Ser Thr Ser  
 85 90 95  
 Pro Lys Val Arg Val Pro Leu Arg Pro Ile Phe Thr Cys Phe Leu  
 100 105 110

<210> 1542  
 <211> 148  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE



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